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Editor-in-Chief: Kai Siegbahn

Section A: accelerators, spectrometers, detectors and associated equipment

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MASTER INDEX

VOLUMES A281–A290

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THIS INDEX COMPLETES VOLUME A290

Laser Handbook, Volume 6

Free Electron Lasers

edited by **W.B. Colson, C. Pellegrini *and* A. Renieri**

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The Free Electron Laser triggers, for many people, wild fantasies on large scale applications. However, Free Electron Lasers are not so much direct devices for various applications, but form an interesting subject within fundamental physics.

The interplay between electric magnetic and the photon field have an intrinsic beauty and are deeply rooted in the fundamental understanding of nature. In this volume, edited by three major initiators in the field and containing contributions from experts belonging to the most advanced groups working on the subject, a first, comprehensive account of the Free Electron Laser is given. Chapters include both complete classical and quantum mechanical descriptions. Various types of experiments with intrinsic strong points and weaknesses are described while attention is also given to state-of-the-art experiments.

This book is not intended as a catalogue of on-going experiments. It is the first large scale reference source on which all further publications on Free Electron Lasers will be based. It will therefore be indispensable for theorists and experimentalists interested in the fundamental aspects of these types of lasers.

Contents: Preface. Introduction *(W.B. Colson, C. Pellegrini, A. Renieri and J.M. Madey).* Introduction to the physics of the free electron laser *(J.B. Murphy and C. Pellegrini).* Some different concepts in free electron lasers *(R.H. Pantell and L.K. Grover).* Undulators, electron trajectories and spontaneous emission *(P. Elleaume).* Classical free electron laser theory *(W.B. Colson).* Coherent harmonics generation *(F. de Martini).* The quantum mechanical analysis of the free electron laser *(G. Dattoli and A. Renieri).* Collective effects in the free electron laser *(P. Sprangle, C.M. Tang and C.W. Roberson).* Low power free electron laser *(M. Poole).* Single-pass free electron laser amplifiers *(E.T. Scharlemann).* The storage ring laser *(D.A.G. Deacon and J.M. Ortega).* Raman free electron laser experiments *(T.C. Marshall).* Accelerators and storage rings for free electron lasers *(A. van Steenbergen).* Extreme ultraviolet and soft X-ray optics for free electron lasers *(J.B. Kortright).* The waveguide free electron laser *(J.E. Walsh).* Author index. Subject index.

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AUTHOR INDEX TO VOLUMES A281–A290

Aab, V., K. Alrutz-Ziemssen, H. Genz, H.-D. Gräf, A. Richter, H. Weise and A. Gaupp, Status of the Darmstadt near-infrared free-electron-laser project A285 (1989) 76
Aaron, W.S., M. Petek, L.A. Zevenbergen and J.R. Gibson, Development and preparation of thin, supported targets and stripper foils A282 (1989) 147
Aaron, W.S., see Kobisk, E.H. A282 (1989) 329
Abbott, D.J., H.J. Karwowski, T.B. Clegg and E.J. Ludwig, A deuteron polarimeter for polarization transfer experiments A284 (1989) 409
Abbott, T., see E-802 Collaboration A290 (1990) 41
Abdulfattah, A.F., see El-Kady, A.A. A281 (1989) 236
Abe, K., see Fujii, Y. A283 (1989) 665
Abe, K., see Kitagaki, T. A281 (1989) 81
Abe, T., see Kodama, K. A289 (1990) 146
Abegg, R., see Bonin, B. A288 (1990) 379
Abegg, R., see Bonin, B. A288 (1990) 389
Abela, P., see Diallo, O. A286 (1989) 379
Abele, H., see Döhner, J. A284 (1989) 123
Abolins, M., D. Edmunds, P. Laurens and B. Pi, The fast trigger for the DØ experiment A289 (1990) 543
Abov, Yu.G., O.N. Ermakov, I.L. Karpikhin, P.A. Krupchitsky, G.A. Lobov, V.F. Perepelitsa, V.I. Petrushin and A.N. Starodumov, Investigation of parity violation in the ^{207}Pb($\vec{n}$, γ)^{208}Pb reaction A284 (1989) 80
Abrams, G., C.E. Adolphsen, C. Akerlof, J.P. Alexander, M. Alvarez, D. Averill, A.R. Baden, J. Ballam, B.C. Barish, T. Barklow, B.A. Barnett, J. Bartelt, D. Blockus, W. De Boer, G. Bonvicini, C. Boswell, A. Boyarski, J. Boyer, B. Brabson, K. Braune, A. Breakstone, J.M. Brom, F. Bulos, P.R. Burchat, D.L. Burke, F. Butler, F. Calvino, R.J. Cence, J. Chapman, M. Chmeissani, D. Cords, D.P. Coupal, P. Dauncey, H.C. Destaebler, D.E. Dorfan, J.M. Dorfan, P.S. Drell, D.C. Drewer, J. Fay, G.J. Feldman, D. Fernandes, E. Fernandez, R.C. Field, W.T. Ford, C. Fordham, R. Frey, D. Fujino, K.K. Gan, C. Gatto, E. Gero, G. Gidal, T. Glanzman, G. Goldhaber, J.J. Gomez Cadenas, X. Gong, G. Gratta, A. Green, P. Grosse-Wiesmann, J. Haggerty, G. Hanson, R. Harr, B. Harral, F.A. Harris, C.M. Hawkes, K. Hayes, C. Hearty, D. Herrup, C.A. Heusch, T. Himel, D.A. Hinshaw, M. Hoenk, S.-O. Holmgren, S.J. Hong, D. Hutchinson, J. Hylen, W.R. Innes, R.G. Jacobsen, M. Jaffre, J.A. Jaros, C.K. Jung, I. Juricic,J.A. Kadyk, D. Karlen, J. Kent, M. King, S.R. Klein, L. Koepke, D. Koetke, A. Koide, S. Komamiya, W. Koska, L.A. Kowalski, W. Kozanecki, J.F. Kral, M. Kuhlen, L. Labarga, A.J. Lankford, R.R. Larsen, M.E. Levi, Z. Li, A.M. Litke, V. Lüth, G.R. Lynch, J.A. McKenna, J.A.J. Matthews, T. Mattison, B.D. Milliken, K.C. Moffeit, L. Müller, C.T. Munger, W.N. Murray, J. Nash, M.E. Nelson, D. Nitz, H. Ogren, R.A. Ong, K.F. O'Shaughnessy, S.I. Parker, C. Peck, J. Perl, M.L. Perl, F. Perrier, A. Petersen, M. Petradza, R. Pitthan, F.C. Porter, P. Rankin, J.D. Richman, K. Riles, F.R. Rouse, D.R. Rust, H.F.W. Sadrozinski, M.W. Schaad, W.B. Schmidke, B.A. Schumm, A.S. Schwarz, A. Seiden, J.G. Smith, A. Snyder, E. Soderstrom, D.P. Stoker, R. Stroynowski, M. Swartz, R.E. Taylor, R. Thun, G.H. Trilling, R. Tschirhart, M. Turala, R. Van Kooten, S. Vejcik, H. Veltman, P. Voruganti, S.R. Wagner, S. Watson, P. Weber, A. Weigend, A.J. Weinstein, A.J. Weir, S. Weisz, S.L. White, E. Wicklund, R.C. Wolf, D.R. Wood, M. Woods, G. Wormser, R. Wright, D.Y. Wu, M. Yurko, C. Zaccardelli and C. Von Zanthier, The Mark II detector for the SLC A281 (1989) 55
Abreu, M., see E-802 Collaboration A290 (1990) 41
Abulfaraj, W.H., see El-Kady, A.A. A281 (1989) 236
Aceña, M.L., see Ferrero, J.L. A286 (1989) 384
Aceña, M.L., see Bortels, G. A286 (1989) 429
Aïche, M., see Vanin, V.R. A284 (1989) 452
Adair, H.L., see Kobisk, E.H. A282 (1989) 329
Adarkar, H., S.R. Dugad, S.D. Kalmani, M.R. Krishnaswamy, J.D. Kulkarni, M.G.K. Menon, N.K. Mondal, P.S. Murty, P. Nagaraj, V.S. Narasimham, B. Satyanarayana, Y. Hayashi, N. Ito, S. Kawakami, T. Nakamura, K. Tanaka and S. Miyake, A microcomputer based data acquisition system for the KGF nucleon decay experiment A284 (1989) 422
Aderholz, M., P.P. Allport, J.-P. Baton, M. Bourdinaud, G. Corrigan, H. Drevermann, K.K. Geissler, J.V. Gibb, L. Gosset, G. Gros, G. Harigel, R. Krawiec, J. Lloyd, D.B. Miller, J. Moreels, D.R.O. Morrison, P.R. Nailor,

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M. Neveu, J. Quidort, P. Sawallisch, R.L. Sekulin, S. Sewell, G. Smith, K. Varvell, L. Verluyten, L. Walton and M. Waters, HOLRED – a machine for the replay of holograms made in a large bubble chamber A284 (1989) 311
Aderholz, M. et al., HOLRED – A machine for the replay of holograms made in a large bubble chamber, Nucl. Instr. and Meth. A284 (1989) 311–322 (*Erratum*) A290 (1990) 264
Adeva, B., M. Aguilar-Benitez, H. Akbari, J. Alcaraz, A. Aloisio, J. Alvarez-Taviel, G. Alverson, M.G. Alviggi, H. Anderhub, A.L. Anderson, A.M. Angelov, T.H. Angelov, G.H. Antchev, L. Antonov, D. Antreasyan, A. Arefiev, I.H. Atanasov, B. Auroy, R. Ayad, O.L. Ayranov, T. Azemoon, T. Aziz, U. Bachmann, P. Bähler, J.A. Bakken, L. Baksay, H. Baldinger, R.C. Ball, J. Ballansat, S. Banerjee, J. Bao, G. Barbier, L. Barone, G. Basti, A. Bay, F. Beauvais, U. Becker, R. Beissel, S. Bendig, P. Béné, J. Berdugo, P. Berges, M. Berthet, Y. Bertsch, B.L. Betev, A. Biland, A. Bischoff, M. Bischops, R. Bizzarri, J.J. Blaising, M. Blanc, P. Blömeke, B. Blumenfeld, G.J. Bobbink, M. Bocciolini, K.D. Boffin, W. Bohlen, A. Böhm, T. Böhringer, H. Bonnefon, C. Bopp, B. Borgia, K. Bosseler, J.F. Bottolier, M. Bourquin, D. Boutigny, P. Bowditch, J.G. Branson, D. Braun, I.C. Brock, F. Bruyant, M. Buchholz, B. Bücken, W. Bulgeroni, R. Burel, J.D. Burger, C. Burgos, J.P. Burq, L. Caiazzo, M. Caillat, B. Camberlin, D. Campana, C. Camps, V. Canale, M. Capell, F. Carbonara, F. Carminati, A.M. Cartacci, M. Cerrada, F. Cesaroni, Y.H. Chang, J.W. Chapman, M. Chemarin, A. Chen, C. Chen, H.F. Chen, H.S. Chen, M. Chen, M.L. Chen, S.R. Chendvankar, G. Chevenier, S. Chidzik, G. Chiefari, C.Y. Chien, F. Chollet, M. Chumakov, C. Civinini, I. Clare, R. Clare, G. Coignet, N. Colino, V. Commichau, G. Conforto, P. Cristofori, F. Crijns, X.Y. Cui, T.S. Dai, R. D'Alessandro, M. Daniel, X. De Bouard, B. Debye, G. Decreuse, A. Degré, K. Deiters, E. Dénes, P. Denes, F. DeNotaristefani, M. Deutschmann, M. Dhina, B. Didierjean, M. Diemoz, M. Dietrich, H.A. Dimitrov, C. Dionisi, F. Dittus, M. Dohmen,R. Dolin, J.F. Donahue, A. Donat, E. Drago, K.H. Dreger, T. Driever, G. Dromby, P. Duinker, I. Duran, M. Elkacimi, H. Elmamouni, A. Engler, F.J. Eppling, F.C. Erné, I. Erne, H. Esser, P. Extermann, R. Fabbretti, G. Faber, S. Falciano, T. Falk, S.J. Fan, M. Favre, J. Fay, S. Fehér, J. Fehlmann, M. Feldmann, H. Fenker, T. Ferguson, M. Fernandez, F. Ferroni, H. Fesefeldt, J. Field, J.M. Figarola, C.F. Figueroa, G.A. Filipov, B. Foligné, G. Forconi, T. Foreman, V. Franzke, W. Frei, K. Freudenreich, W. Friebel, M. Fukushima, G. Gaillard, M. Gailloud, Yu. Galaktionov, E. Gallo, S.N. Ganguli, D. Garelick, S.S. Gau, G. Gavrilov, E. Gennari, S. Gentile, M. Gettner, C. Girard, M. Glaubman, S. Goldfarb, Z.F. Gong, E. Gonzalez, A. Gordeev, Yu. Gorodkov, P. Göttlicher, C. Goy, M. Goyot, G. Gratta, A. Grimes, C. Grinnell, M. Gruenewald, M. Guanziroli, S. Guerra, C. Guillon, A. Gurtu, D. Güsewell, H.R. Gustafson, M. Haensli, M. Haan, C. Haller, T. Hamacher, H. Hammers, K. Hangarter, S. Hancke, M. Harris, D. Harting, F.G. Hartjes, C.F. He, A. Heavey, T. Hebbeker, M. Hebert, R. Heller, Ch. Helmrath, J. Herrmann, G. Herten, U. Herten, A. Hervé, H. Hesser, G. Hilgers, K. Hilgers, H. Hofer, H. Hofer, M. Hofer, T. Hofer, F. Hoffmann, U. Horisberger, I. Horvath, L.S. Hsu, G.Q. Hu, B. Ille, M.M. Ilyas, G. Improta, V. Innocente, E. Isiksal, E. Jagel, B.N. Jin, L.W. Jones, M. Jongmanns, H. Jung, P. Kaaret, O. Kaelin, W. Kaestli, Yu. Kamyshkov, D. Kaplan, W. Karpinski, Y. Karyotakis, W. Kertzer, V. Khoze, G. Kirchhoff, W. Kittel, A. Klimentov, P.F. Klok, M. Kollek, M. Koller, A.C. König, O. Kornadt, V. Koutsenko, R.W. Kraemer, V.R. Krastev, A. Kratel, W. Krenz, A. Kuhn, A. Kunin, S. Kwan,J. Lacotte, M. Lamarra, G. Landi, W. Lange, K. Lanius, D. Lanske, S. Lanzano, J.M. Le Goff, J.C. Le Marec, D. Lea, M. Lebeau, P. Lebrun, P. Lecomte, J. Lecoq, P. Lecoq, P. Le Coultre, I. Leedom, A. Léger, F. Lehmann, L. Leistam, R. Leiste, E. Lejeune, B. Leoni, J. Lettry, X. Leytens, C. Li, H.T. Li, L. Li, P.J. Li, X.G. Li, J.Y. Liao, Z.Y. Lin, F.L. Linde, D. Linnhöfer, E. Loftin, W. Lohmann, S. Lökös, E. Longo, Y.S. Lu, J.M. Lubbers, K. Lübelsmeyer, C. Luci, D. Luckey, X. Lue, L. Luminari, G. Lunadei, F. Lürken, H. Ma, W.G. Ma, M. MacDermott, N. Madjar, R. Magahiz, M. Maire, P.K. Malhotra, A. Malinin, C. Mana, F. Manna, G. Manto, Y.F. Mao, M. Maolinbay, P. Marchesini, A. Marchionni, M. Markwalder, P. Marsden, J.P. Martin, L. Martinez, H.U. Martyn, F. Marzano, V. Marzullo, F. Masciocchi, G.G.G. Massaro, L. Massonnet, T. Matsuda, G. Maurelli, K. Mazumdar, P. McBride, G. Medici, H. Meier, Th. Meinholz, M. Merk, R. Mermod, L. Merola, M. Meschini, W.J. Metzger, M. Micke, U. Micke, G.B. Mills, J. Mnich, M. Moeller, A. Molinero, L. Montanet, B. Monteleoni, R. Montino, G. Morand, R. Morand, S. Morganti, V. Morgunov, R. Mount, M. Moynot, P. Mugnier, W. Nägeli, E. Nagy, M. Napolitano, S. Neboux, H. Newman, Ch. Neyer, K. Nguyen, L. Niessen, A. Nikitin, W.D. Nowak, M. Okle, P. Olmos, J. Onvlee, D. Osborne, J. Ossmann, D. Pandoulas, H. Paprotny, A. Parmentola, G. Passeggio, G. Paternoster, S. Patricelli, Y.J. Pei, Y. Peng, Y. Peng, D. Perret-Gallix, J. Perrier, E. Perrin, G. Perrot, P. Petitpas, P. Petschner, A. Pevsner, J. Pier-Amory, M. Pieri, V. Pieri, G. Pierschel, P.A. Piroué, V. Plyaskin, M. Pohl, V. Pojidaev, C.L.A. Pols, T. Ponomareff, J. Potyka, N. Produit, P. Prokofiev, F. Pruja, G. Pütz, J.M. Qian, R. Raghavan, P. Razis, K. Read, P. Reddick, K. Reissmann, D. Ren, S. Reucroft, D. Rey, M. Reynaud, X. Ricadonna, J-P. Richeux, C. Rippich, U. Rinsche, R. Rocco, S. Rodriguez, B.P. Roe, M. Röhner, S. Röhner, Th. Rombach, L. Romero, J. Rose, U. Röser, S. Rosier-Lees, J.A. Rubio, W. Ruckstuhl, H. Rykaczewski, P. Sahuc, J. Salicio, S. Saran, G. Sauvage, A. Savin, T. Schaad, B. Schafheitle, V. Schegelsky, A. Schetkovsky, F. Schild, R. Schillsott, P. Schmitt, D. Schmitz, P. Schmitz, M. Schneegans, M. Schneider, E. Schneevogt, M. Schöntag, D.J. Schotanus, H. Schuijlenburg, R. Schulte, A. Schultz von Dratzig, K. Schultze, J. Schwenke, G. Schwering, C. Sciacca, P.G. Seiler, J.C. Sens, I. Sheer, V. Shevchenko, S. Shevchenko, X.R. Shi, K. Shmakov, V. Shoutko, E. Shumilov, R. Siedling, N. Smirnov, V.

Souvorov, C. Souyri, I. Spangler, T. Spickermann, B. Spiess, P. Spillantini, R. Starosta, M. Steuer, D.P. Stickland, B. Stöhr, H. Stone, K. Strauch, K. Sudhakar, R.L. Sumner, H. Suter, R.B. Sutton, H. Szczesny, J. Tang, X.W. Tang, E. Tarkovsky, A. Tavenrath, V. Tchudakov, J.M. Thenard, E. Thomas, T. Thon, H. Thuerig, M. Thulen, C. Timmermans, S.C.C. Ting, S.M. Ting, F. Tonisch, Y.P. Tong, M. Tonutti, S.C. Tonwar, J. Tòth, W. Toth, G. Trowitzsch, K.L. Tung, J. Ulbricht, L. Urbàn, E. Valente, R.T. Van de Walle, H. Van der Graaf, V. Vanzanella, M. Vergain, I. Vetlitsky, H. Vey, G. Viertel, M. Vivargent, H. Vogel, S. Volkov, M. Vollmar, H.P. Von Gunten, I. Vorobiev, A. Vorobyov, L. Vuilleumier, S. Waldmeier, W. Walk, W. Wallraff, C.Y. Wang, G.H. Wang, J.H. Wang, Q.F. Wang, X.L. Wang, Y.F. Wang, Z.M. Wang, Z.M. Wang, D. Wassenberg,D. Wegmann, R. Weill, T.J. Wenaus, P. Wenger, J. Wenninger, M. White, R. Wilhelm, C. Willmott, H.P. Wirth, F. Wittgenstein, R.J. Wu, S.X. Wu, Y.G. Wu, B. Wyslouch, F.Y. Xi, Z.Z. Xu, Z.L. Xue, D.S. Yan, K.D. Yanev, B.Z. Yang, C.G. Yang, K.S. Yang, Q.Y. Yang, Z.Q. Yang, C.H. Ye, S.C. Yeh, Z.W. Yin, C. Zabounidis, L. Zehnder, Y. Zeng, D.H. Zhang, S.Y. Zhang, Z.P. Zhang, B. Zhou, J.F. Zhou, Z.P. Zhou, R.Y. Zhu, A. Zichichi, M. Zofka and J. Zoll, The construction of the L3 experiment A289 (1990) 35

Adeva, B., M. Aguilar-Benitez, A. Aloisio, M.G. Alviggi, D. Antreasyan, L. Baksay, U. Becker, J. Berdugo, G.J. Bobbink, J.G. Branson, C. Burgos, J.D. Burger, D. Campana, F. Carbonara, M. Cerrada, Y.H. Chang, M.L. Chen, G. Chiefari, N. Colino, E. Drago, P. Duinker, I. Duran, F. Erné, R. Fabbretti, M. Fabre, S. Feher, S.S. Gau, M. Gettner, E. Gonzalez, H. Van der Graaf, D. Güsewell, F.G. Hartjes, V. Innocente, B.N. Jin, A. König, S. Lanzano, J.M. LeGoff, X. Leijtens, L. Li, S. Lokos, C. Mana, L. Martinez, G.G.G. Massaro, Y.F. Mao, R. Magahiz, P. McBride, L. Merola, M. Napolitano, H. Onvlee, G. Paternoster, S. Patricelli, Y. Peng, O. Prokofiev, J.M. Qian, P. Razis, L. Romero, J.A. Rubio, H. Rykaczewski, J. Salicio, A. Schetkovsky, P. Schmitt, C. Sciacca, P.G. Seiler, V. Souvorov, K. Strauch, C. Timmermans, S. Volkov, J.H. Wang, Q.F. Wang, Z.M. Wang, T. Wenaus, M. White, R. Wilhelm, C. Willmott, B. Wyslouch, F.Y. Xi, B.Z. Yang, C.G. Yang, Q.Y. Yang, C.H. Ye, S.C. Yeh, C.R. Zabounidis and Z.P. Zhang, Test results of the L3 precision muon detector A289 (1990) 335

Adeva, B., M. Aguilar-Benitez, A. Aloisio, M.G. Alviggi, D. Antreasyan, L. Baksay, U. Becker, J. Berdugo, G.J. Bobbink, J.G. Branson, C. Burgos, J.D. Burger, D. Campana, F. Carbonara, M. Cerrada, Y.H. Chang, M.L. Chen, G. Chiefari, N. Colino, E. Drago, P. Duinker, I. Duran, F. Erné, R. Fabbretti, M. Fabre, S. Feher, S.S. Gau, M. Gettner, E. Gonzalez, H. Van der Graaf, D. Güsewell, F.G. Hartjes, V. Innocente, B.N. Jin, A. König, S. Lanzano, J.M. LeGoff, X. Leijtens, L. Li, S. Lokos, C. Mana, L. Martinez, G.G.G. Massaro, Y.F. Mao, R. Magahiz, P. McBride, L. Merola, M. Napolitano, H. Onvlee, G. Paternoster, S. Patricelli, Y. Peng, O. Prokofiev, J.M. Qian, P. Razis, L. Romero, J.A. Rubio, H. Rykaczewski, J. Salicio, A. Schetkovsky, P. Schmitt, C. Sciacca, P.G. Seiler, V. Souvorov, K. Strauch, C. Timmermans, S. Volkov, J.H. Wang, Q.F. Wang, Z.M. Wang, T. Wenaus, M. White, R. Wilhelm, C. Willmott, B. Wyslouch, F.Y. Xi, B.Z. Yang, C.G. Yang, Q.Y. Yang, C.H. Ye, S.C. Yeh, C.R. Zabounidis and Z.P. Zhang, Study of θ-inclined tracks in L3 muon chambers A290 (1990) 115

Adler, J., T. Bolton, K. Bunnell, E. Cheu, C. Grab, G. Mazaheri, A. Odian, D. Pitman, W. Stockhausen, W. Toki, W. Wadley, C. Wood and R. Mir, Study of straw chamber lifetime with argon ethane A283 (1989) 679

Adolf, M., see Rosenzweig, J. A283 (1989) 255

Adolphsen, C., G. Gratta, L. Labarga, A. Litke, A. Schwarz, M. Turala, C. Zaccardelli, A. Breakstone, S. Parker, B. Barnett, C. Boswell, P. Dauncey, D. Drewer, J. Matthews, S. Vejcik, R. Jacobsen and V. Lüth, An alignment method for the MARK II silicon strip vertex detector using an X-ray beam A288 (1990) 257

Adolphsen, C.E., see Abrams, G. A281 (1989) 55

Afonin, V.V., see Marsden, R.G. A290 (1990) 211

Afonin, V.V., see McKenna-Lawlor, S. A290 (1990) 217

Afonin, V.V., S. McKenna-Lawlor, P. Kiraly, R. Marsden, A. Richter, P. Rusznyak, N.M. Shutte, L. Szabo, S. Szalai, I.T. Szucs, L. Varhalmi and M. Witte, The ESTER particle and plasma analyzer complex for the Phobos Mission A290 (1990) 223

Ageev, A.L., see Babanov, Yu.A. A282 (1989) 646

Agehed, K., see Borsuk, S. A284 (1989) 430

Ageron, P., see Mampe, W. A284 (1989) 111

Ageron, P., Cold neutron sources at ILL A284 (1989) 197

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Agnew, G., see Damerell, C.J.S. A288 (1990) 236

Agodi, C., see Bellia, G. A284 (1989) 399

Agrinier, B., see Agnetta, G. A281 (1989) 197

Agrinskaya, N.V. and E.N. Arkadeva, Fermi level pinning in the middle of the band gap in CdTe:Cl crystals: role of deep localized states A283 (1989) 260

Agrinskaya, N.V. and O.A. Matveev, On the close compensation mechanism in CdTe(Li, Cl) crystals A283 (1989) 263

Aguilar-Benitez, M., see Adeva, B. A289 (1990) 35

Aguilar-Benitez, M., see Adeva, B. . . . A289 (1990) 335
Aguilar-Benitez, M., see Adeva, B. . . . A290 (1990) 115
Aguirregabiria, J.M., see Bradaschia, C. . . . A289 (1990) 518
Ahlen, S., see Zhou, B. . . . A287 (1990) 439
Ahmad, S., see ASTERIX Collaboration . . . A286 (1989) 76
Ahrens, J., see Hartmann, W. . . . A286 (1989) 1
Aivazian, Yu.M., see Belyakov, V.A. . . . A282 (1989) 628
Akagi, T., see Kitagaki, T. . . . A281 (1989) 81
Akbari, H., see Adeva, B. . . . A289 (1990) 35
Akchurin, N., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Akei, M., J.F. Amann, J. Chiba, H. Ejiri, M. Fukuda, T. Fukuda, O. Hashimoto, S. Homma, T. Irie, Y. Iseki, A. Kashitani, S. Kato, K. Kimura, T. Kishimoto, K. Maeda, Y. Matsuyama, J.A. McGill, T. Nagae, H. Nagasawa, C. Nagoshi, M. Nomachi, H. Noumi, H. Ohsumi, K. Okuda, K. Omata, H. Sano, O. Sasaki, T. Shibata, F. Soga, F. Takeuchi, H.A. Thiessen, S. Toyama, K.H. Tanaka, Y. Yamanoi and N. Yoshikawa, A broad range spectrometer PIK for medium-energy meson spectroscopy . . . A283 (1989) 46
Akerlof, C., see Abrams, G. . . . A281 (1989) 55
Akiba, T., see Mima, K. . . . A285 (1989) 47
Akiba, Y., see E-802 Collaboration . . . A290 (1990) 41
Akrawy, M., G.T.J. Arnison, J.R. Batley, K.W. Bell, R.M. Brown, A.A. Carter, J.R. Carter, W.M. Evans, N.I. Geddes, C.N.P. Gee, W.R. Gibson, M.J. Goodrick, P.W. Jeffreys, P. Kyberd, G.N. Patrick, M.D. Rousseau, R.A. Sansum, B.J. Saunders, M. Sproston and C.P. Ward, Development studies for the OPAL end cap electromagnetic calorimeter using vacuum photo triode instrumented leadglass . . . A290 (1990) 76
Al-Horayess, O.S., see Raoof, M.A. . . . A290 (1990) 208
Al-Niemi, N., see Saraf, S.K. . . . A288 (1990) 451
Al-Soraya, A.M., see Raoof, M.A. . . . A290 (1990) 208
Alarja, J., see AMORPHA Collaboration . . . A281 (1989) 528
Alba, R., see Bellia, G. . . . A284 (1989) 399
Albee, A.L., see Bradley, J.G. . . . A283 (1989) 348
Alberigi Quaranta, A., see Nava, F. . . . A290 (1990) 457
Alburger, D., see E-802 Collaboration . . . A290 (1990) 41
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Alcaraz, J., see Adeva, B. . . . A289 (1990) 35
Alderliesten, C., see Zijderhand, F. . . . A286 (1989) 490
Aleonard, M.M., see Azaiez, F. . . . A281 (1989) 133
Aleshko-Ozhevskij, O.P., see Lider, V.V. . . . A282 (1989) 632
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Alexeev, V.I., E.G. Bessonov and A.V. Serov, On the theory of parametric free-electron lasers based on opened resonators A282 (1989) 439
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Alexeff, I., F. Dyer and M. Rader, Recent results on the Orbitron Maser A285 (1989) 228
Alfimenkov, V.P., see Kharitonov, A.G. A284 (1989) 98
Alieva, E.V., see Alexeev, V.I. A282 (1989) 436
Alitti, J., R.E. Ansorge, P. Bareyre, G. Blaylock, P. Bonamy, C.N. Booth, J. Crittenden, R.S. DeWolf, J. Dupont, K. Einsweiler, C. Engster, J.-M. Gaillard, K. Hultqvist, M. Lefebvre, L. Linssen, J.-P. Meyer, D.J. Munday, J.M. Pentney, J.G. Rushbrooke, A. Stirling, A.R. Weidberg, P.S. Wells, D.R. Wood, S.A Wotton, T.O. White and H. Zaccone, Performance of the UA2 scintillating-fibre detector A283 (1989) 646
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Allport, P., see Dijkstra, H. A289 (1990) 400
Allport, P.P., see Aderholz, M. A284 (1989) 311
Aloisio, A., see Adeva, B. A289 (1990) 35
Aloisio, A., see Adeva, B. A289 (1990) 335
Aloisio, A., see Adeva, B. A290 (1990) 115
Alpat, B., see Benvenuti, A.C. A284 (1989) 339
Alpat, B., see SLD-WIC Collaboration A289 (1990) 449
Alpat, B., see Benvenuti, A.C. A289 (1990) 463
Alpat, B., see Benvenuti, A. A289 (1990) 577
Alpat, B., see Benvenuti, A.C. A290 (1990) 353
Alrutz-Ziemssen, K., see Aab, V. A285 (1989) 76
Alsmiller, F.S., see Alsmiller Jr, R.G. A286 (1989) 73
Alsmiller Jr, R.G., F.S. Alsmiller and O.W. Hermann, Calculated inclusive neutron production from 400 GeV proton–nucleus collisions A286 (1989) 73
Alton, G.D., Recent advancements in high intensity heavy negative ion sources based on the sputter principle . A287 (1990) 139
Alvarez, M., see Abrams, G. A281 (1989) 55
Álvarez de Lara, P., see Garabatos, C. A283 (1989) 553
Álvarez de Lara, P., see Cherney, M. A283 (1989) 796
Alvarez-Taviel, J., see Adeva, B. A289 (1990) 35
Alverson, G., see Adeva, B. A289 (1990) 35
Alves, M.A.F., see Ribeiro, R.S. A283 (1989) 705
Alviggi, M.G., see Adeva, B. A289 (1990) 35
Alviggi, M.G., see Adeva, B. A289 (1990) 335
Alviggi, M.G., see Adeva, B. A290 (1990) 115
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Amann, J.F., see Akei, M. A283 (1989) 46
Ambrosi, G., see LAA-LAD Group A289 (1990) 351
Amendolia, S.R., T. Barczewski, L.A.T. Bauerdick, E. Blucher, W. Blum, J. Boudreau, D. Cinabro, M.A. Ciocci, J. Conway, D.F. Cowen, F. Fidecaro, B. Gobbo, A. Halley, S. Haywood, A. Jahn, R. Johnson, M. Kasemann, U. Larsson, B. Leclaire, I. Lehraus, T. Lohse, A. Lusiani, P.S. Marrocchesi, J. May, E. Milotti, A. Minten, J. Richstein, R. Richter, S. Roehn, L. Rolandi, D. Schlatter, M. Schmelling, R. Settles, G. Stefanini, F. Steeg, M. Takashima, W. Tejessy, J. Thomas, A. Vayaki, J. Wear, W. Witzeling, S.L. Wu and S. Xue, The spatial resolution of the ALEPH TPC A283 (1989) 573

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Ames, F., see Ruster, W. A281 (1989) 547
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Amidei, D., see Carithers, W.C. A289 (1990) 388
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Amsbaugh, J.F., see Weitkamp, W.G. A287 (1990) 283
Amsbaugh, J.M., see Storm, D.W. A287 (1990) 247
Amsler, C., see ASTERIX Collaboration A286 (1989) 76
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Anderhub, H., see Adeva, B. A289 (1990) 35
Andersen, E., see Garabatos, C. A283 (1989) 553
Andersen, E., see Cherney, M. A283 (1989) 796
Andersen, J.N., see Karlsson, U.O. A282 (1989) 553
Anderson, A.L., see Adeva, B. A289 (1990) 35
Anderson, B.E., D.J. Attree, A. Charalambous, R. Cranfield, M. Cresswell, G. Crone, G.M. Dallavalle, M. Dryburgh, B.W. Kennedy, D. Hayes, L. Marradi, D.J. Miller, P. Sherwood, E. Spreadbury, N.C. Wood and K.K. Young, Compact drift-chambers for the OPAL forward detectors A283 (1989) 650
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Ando, Y., see Kubota, S. A285 (1989) 436
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Andresen, A., see ZEUS Calorimeter Group A290 (1990) 95
Andresen, H.G., see Hartmann, W. A286 (1989) 1
Andrews, H., see Faruqi, A.R. A283 (1989) 445
Andriamonje, S., see Azaiez, F. A281 (1989) 133
Andronova, N.V., see Avaev, A.V. A282 (1989) 398

Anelli, M., G. Battistoni, G. Bencivenni, P. Campana, U. Denni, G. De Ninno, P. Laurelli, P. Picchi, B. D'Ettorre Piazzoli, A. Campos Fauth and G. Mannocchi, Use of large size streamer tubes in cosmic ray experiments A289 (1990) 294
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Angelini, C., see WA84 Collaboration A289 (1990) 342
Angelini, C., see WA84 Collaboration A289 (1990) 356
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Angelov, A.M., see Adeva, B. A289 (1990) 35
Angelov, T.H., see Adeva, B. A289 (1990) 35
Ansari, R., E. Beuville, K. Borer, P. Cenci, A.G. Clark, A. Federspiel, O. Gildemeister, C. Gössling, K. Hara, E.H.M. Heijne, P. Jarron, P. Lariccia, B. Lisowski, D.J. Munday, T. Pal, M.A. Parker, M. Pepe, P. Scampoli, V. Simak, S.L. Singh and P.S. Wells, Successful operation of a new Si-pad detector with ASIC readout at the CERN $\bar{p}p$-collider A288 (1990) 240
Ansorge, R.E., see Alitti, J. A283 (1989) 646
Antchev, G.H., see Adeva, B. A289 (1990) 35
Antilogus, P., see Brand, C. A283 (1989) 567
Antinori, F., D. Barberis, W. Beusch, M. Dameri, J.P. Dufey, B.R. French, A. Forino, E.H.M. Heijne, A. Jacholkowski, P. Jarron, P. Legros, D. Marioli, C. Meroni, F. Muller, A. Olcese, B. Osculati, N. Redaelli, L. Rossi and D. Torretta, Results on a 10 micron pitch detector with individual strip readout A288 (1990) 82
Antipov, Y., see Butler, J.M. A290 (1990) 122
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Antonov, L., see Adeva, B. A289 (1990) 35
Antonsen Jr, T.M., see Booske, J.H. A285 (1989) 92
Antonsen Jr, T.M., see Levush, B. A285 (1989) 136
Antreasyan, D., see Adeva, B. A289 (1990) 35
Antreasyan, D., see Adeva, B. A289 (1990) 335
Antreasyan, D., see Adeva, B. A290 (1990) 115
Antson, A.A., see Popov, A.N. A282 (1989) 510
Aoki, S., see Kodama, K. A289 (1990) 146
Aoki, S., see Cho, T. A289 (1990) 317
Aoki, T., see Mitsui, K. A290 (1990) 565
Apel, P.Yu., see Mitrofanov, A.V. A282 (1989) 542
Apgar, S.A., see Lumpkin, A.H. A285 (1989) 343
Apollinari, G., see Bertolucci, S. A289 (1990) 375
Appuhn, R.D., see Michel, E. A283 (1989) 544
Arai, E., see Satoh, K. A287 (1990) 353
Arai, I., see Tanaka, M. A284 (1989) 296
Arbuzov, V.S., see Anashin, V.V. A282 (1989) 386
Archuleta, T.A., see Barthell, B.L. A282 (1989) 169
Arefiev, A., see L3 Collaboration A285 (1989) 403
Arefiev, A., see L3 Collaboration A288 (1990) 364
Arefiev, A., see Adeva, B. A289 (1990) 35
Arena, V., see Park, S. A289 (1990) 496
Arends, J., see Huthmacher, S. A283 (1989) 454

Aria, E., see Van Apeldoorn, G. . . . A283 (1989) 767
Arif, M., see Cimmino, A. . . . A284 (1989) 179
Arif, M., see Kaiser, H. . . . A284 (1989) 190
Arif, M., R.D. Deslattes, M.S. Dewey, G.L. Greene and I.G. Schroder, Facilities for fundamental physics research at the NIST cold neutron facility . . . A284 (1989) 216
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Arkadeva, E.N., see Agrinskaya, N.V. . . . A283 (1989) 260
Arman, G., see Manfredotti, C. . . . A284 (1989) 464
Armbruster, P., see Münzenberg, G. . . . A282 (1989) 28
Armbruster, P., see Geissel, H. . . . A282 (1989) 247
Armenteros, R., see ASTERIX Collaboration . . . A286 (1989) 76
Armitage, J.C., see Carter, J.R. . . . A286 (1989) 99
Armstrong, T.A., D.M. Elias, R.A. Lewis, E.D. Minor, J. Passaneau and G.A. Smith, The LEAR PS177 low energy K^+ detector . . . A289 (1990) 109
Arnison, G.T.J., see Akrawy, M. . . . A290 (1990) 76
Arnould, M., F. Baeten, D. Darquennes, Th. Delbar, C. Dom, M. Huyse, Y. Jongen, M. Lacroix, P. Lipnik, M. Loiselet, G. Reusen, G. Ryckewaert, S. Wa Kitwanga, P. Van Duppen, J. Vanhorenbeeck, J. Vervier and S. Zaremba, Target development for a radioactive ion beam . . . A282 (1989) 99
Arora, R., see Noé, J.W. . . . A287 (1990) 240
Artamonov, A.S. and Ya.S. Derbenev, Electron cooling of positrons . . . A284 (1989) 248
Artemyev, A.N., see Avaev, A.V. . . . A282 (1989) 398
Artykov, A.M., see Budagov, Yu.A. . . . A284 (1989) 433
Arzakantsian, A.M., see Karabekov, I.P. . . . A282 (1989) 640
Arzakantsian, A.M., see Karabekov, I.P. . . . A282 (1989) 642
Asami, A., see Enomoto, A. . . . A281 (1989) 1
Aschman, D.G., see McMurray, W.R. . . . A288 (1990) 421
Ash, W.W., see Allaby, J.V. . . . A281 (1989) 291
Astakhov, A.Ya., Yu.A. Batusov, Gy.L. Bencze, I. Farago, A. Kisváradi, L. Molnar, L.M. Soroko and J. Vegh, Meso-optical Fourier transform microscope – A new device for high energy physics . . . A283 (1989) 13
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Atanasov, I.H., see Adeva, B. . . . A289 (1990) 35
Atkinson, D.P., see Jong, R.A. . . . A285 (1989) 379
Attree, D.J., see Anderson, B.E. . . . A283 (1989) 650
Aubert, B., J. Colas, L. Dobrzynski, Ph. Ghez, D. Kryn, J.C. Lacotte, B. Mansoulie, J.P. Mendiburu, M. Pripstein, P. Salin and J. Teiger, Saturation of ionization signals in TMP and TMS at different angles and electric fields . . . A286 (1989) 147
Aubert, J., see Coste, Ph. . . . A288 (1990) 517
Aubret, C., see Brand, C. . . . A283 (1989) 567
Auchampaugh, G.F., see Feldman, W.C. . . . A287 (1990) 595
Auchincloss, P., see Carroll, J.T. . . . A289 (1990) 606
Audet, S.A., see Wouters, S.E. . . . A288 (1990) 44
Audet, S.A., see Schooneveld, E.M. . . . A288 (1990) 250

Auerbach, L., S. Clearwater, T. Dombeck, T.J. Bowles, H.S. Matis, W. Gorn, B. Dieterle, J. Kang, C. Leavitt and D. Koetke, The response of an aluminum–scintillator calorimeter to electrons near the critical energy from 50 to 150 MeV and comparisons with the EGS4 program predictions A287 (1990) 378
Augustin, J.E., see Brand, C. A283 (1989) 567
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Aulchenko, V.M., see Anashkin, E.V. A283 (1989) 752
Aulchenko, V.M., S.G. Klimenko, G.M. Kolachev, L.A. Leontiev, A.P. Onuchin, V.S. Panin, Yu.V. Pril, V.A. Rodyakin, A.V. Rylin, V.A. Tayursky, Yu.A. Tikhonov, P. Cantoni, P.L. Frabetti, L. Stagni, G. Lo Bianco, F. Palombo, P.F. Manfredi, V. Re and V. Speziali, Investigation of an electromagnetic calorimeter based on liquid krypton A289 (1990) 468
Auld, E.G., see ASTERIX Collaboration A286 (1989) 76
Auroy, B., see Adeva, B. A289 (1990) 35
Avaev, A.V., N.V. Andronova, A.N. Artemyev, A.I. Chechin, A.G. Mikhin and O.V. Sinyansky, Determination of the critical wavelength of the dedicated synchrotron radiation source SIBERIA-1 . . . . . A282 (1989) 398
Avenier, M., Neutrino oscillation experiments at reactors A284 (1989) 29
Averill, D., see Abrams, G. A281 (1989) 55
Avset, B.S., J. Ellison, L. Evensen, G. Hall, T-E. Hansen, S. Roe and R. Wheadon, Silicon drift photodiodes . . A288 (1990) 131
Avundjian, A.T., S.A. Kankanian, A.G. Oganessian and L.M. Petrossian, Beam identifier A283 (1989) 612
Axen, D.A., see ASTERIX Collaboration A286 (1989) 76
Ayad, R., see Adeva, B. A289 (1990) 35
Ayranov, O.L., see Adeva, B. A289 (1990) 35
Äystö, J., see Taskinen, P. A281 (1989) 539
Azaiez, F., M.M. Aleonard, S. Andriamonje, J.F. Chemin, G. Claverie, J.N. Scheurer, F. Beck and G. Costa, A 4π light charged particle multidetector for reaction channel identification and discrimination A281 (1989) 133
Azemoon, T., see L3 Collaboration A285 (1989) 403
Azemoon, T., see L3 Collaboration A288 (1990) 364
Azemoon, T., see Adeva, B. A289 (1990) 35
Aziz, T., see Adeva, B. A289 (1990) 35
Azuelos, G., see Schreckenbach, K. A284 (1989) 120

Baake, M., B. Diekmann, F. Gebert, K. Heinloth, S. Holzkamp, G. Körsgen, A. Voigtlaender-Tetzner, L. Bagdassarian, C. Kazarian and A. Oganessian, A transition radiation detector for kaon/pion separation . . . A281 (1989) 325
Babaev, A., see Michel, E. A283 (1989) 544
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Bacchetta, N., see Benvenuti, A.C. A284 (1989) 339
Bacchetta, N., see SLD-WIC Collaboration A289 (1990) 449
Bacchetta, N., see Benvenuti, A.C. A289 (1990) 463
Bacchetta, N., see Benvenuti, A. A289 (1990) 577
Bacchetta, N., see Benvenuti, A.C. A290 (1990) 353
Bacci, C., J. Boniface, R. Bonino, G. Busetto, A. Caner, P. Casoli, P. Cennini, F. Ceradini, J. Colas, R. Conte, M. De Giorgi, F. Lacava, J.C. Lacotte, R. Martinelli, A.T. Meneguzzo, M. Nicoletto, E. Petrolo, A. Tusi, S. Veneziano and L. Zanello, Electronics and readout of the UA1 uranium–TMP calorimeter, Nucl. Instr. and Meth. A279 (1989) 169–179 (*Erratum*) A284 (1989) 536
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Bachmann, U., see Adeva, B. A289 (1990) 35
Bacilieri, P., B. Caccia, R. Cardarelli, O. Ciaffoni, M. Coli, G. Di Pirro, M.L. Ferrer, A. Ghiselli, A. Martini, G. Medici, G. Mirabelli, E. Pace, R. Santonico, L. Trasatti, E. Valente and S. Valentini, Starnet, a high-speed fiber optical network for particle physics application A289 (1990) 610
Badan, L., see Fortuna, G. A287 (1990) 253
Badan, L., see Pengo, R. A287 (1990) 309
Baden, A.R., see Abrams, G. A281 (1989) 55
Baer, H., see Gursky, J.C. A282 (1989) 62
Baeten, F., see Arnould, M. A282 (1989) 99
Bagdasarian, V.G., see Karabekov, I.P. A282 (1989) 642
Bagdassarian, L., see Baake, M. A281 (1989) 325
Baggs, R., see Alexander, J.P. A283 (1989) 519

Bagliesi, G., R. Baldini, G. Batignani, G. Bencivenni, G. Bologna, F. Bossi, U. Bottigli, C. Bradaschia, P. Campana, G. Capon, M.G. Catanesi, V. Chiarella, R. Clifft, F. Combley, G. De Ninno, M. De Palma, B. D'Ettorre-Piazzoli, M. Dinsdale, R. Edgecock, M. Edwards, A. Farilla, G. Felici, L. Foa', A. Giassi, M. Green, J. Hearns, G. Iaselli, T. Jones, P. Laurelli, F. Ligabue, J.G. Lynch, G. Maggi, G. Mannocchi, P. March, A. Mastrogiacomo, T. Medcalf, A. McKemey, A. Messineo, M.N. Minard, M. Morrissey, F. Murtas, G.P. Murtas, S. Natali, G. Nicoletti, P. Norton, S. Nuzzo, M. Pepe, P. Picchi, C. Raine, A. Ranieri, G. Raso, F. Romano, F. Ruggieri, D. Salmon, G. Sanguinetti, G. Selvaggi, L. Silvestris, K. Smith, P. Tempesta, R. Tenchini, R. Thomas, J. Thompson and G. Zito, The combined response of the ALEPH electromagnetic and hadronic calorimeter to pions A286 (1989) 61
Bagnolatti, E., see Manfredotti, C. A286 (1989) 238
Bagrov, V.G., M.M. Nikitin, N.N. Sirota and N.I. Fedosov, The spontaneous radiation properties of an electron moving in a cyclic accelerator with straight-linear intervals A282 (1989) 402
Bahk, S.Y., see Kodama, K. A289 (1990) 146
Bähler, P., see Adeva, B. A289 (1990) 35
Bahrdt, J., see Peatman, W. A282 (1989) 448
Bailey, D., see ASTERIX Collaboration A286 (1989) 76
Baird, S., see Poth, H. A287 (1990) 328
Bakken, J.A., see Adeva, B. A289 (1990) 35
Baksay, L., see Nemethy, P. A283 (1989) 578
Baksay, L., see Adeva, B. A289 (1990) 35
Baksay, L., see Adeva, B. A289 (1990) 335
Baksay, L., see Adeva, B. A290 (1990) 115
Baksay, L.A., see Allaby, J.V. A281 (1989) 291
Bal, R., see L3 Collaboration A285 (1989) 403
Balazs, A., see Marsden, R.G. A290 (1990) 211
Baldin, B., see Butler, J.M. A290 (1990) 122
Baldinger, H., see Adeva, B. A289 (1990) 35
Baldini, R., see Bagliesi, G. A286 (1989) 61
Baldini-Celio, R., see Antonelli, A. A281 (1989) 589
Ball, G.C., see Potvin, L. A281 (1989) 359
Ball, R.C., see Adeva, B. A289 (1990) 35
Ball, S., see Michel, E. A283 (1989) 544
Ballam, J., see Abrams, G. A281 (1989) 55
Ballansat, J., see Adeva, B. A289 (1990) 35
Ballaux, C., see Denecke, B. A286 (1989) 474
Baller, B.R., see Kodama, K. A289 (1990) 146
Balleyguier, P., see Dei-Cas, R. A285 (1989) 320
Baltay, C., see Manly, S. A290 (1990) 393
Bambade, P., see Koska, W. A286 (1989) 32
Bambade, P., see Phinney, N. A288 (1990) 308
Bambade, P., P. Burchat, D. Burke, W. Ford, C. Hawkes, W. Koska, W. Kozanecki, T. Lohse, T. Mattison, N. Phinney, M. Placidi, D. Ritson and S. Wagner, Operational experience with optical matching in the SLC final focus system A290 (1990) 11
Bamberger, A., see ZEUS Calorimeter Group A290 (1990) 95
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Bambynek, W., see Denecke, B. A286 (1989) 474
Bamford, D.J. and D.A.G. Deacon, Measurement of the coherent harmonics emitted in the Mark III free electron laser A285 (1989) 23
Band, C.W., see Smith, A.E. A289 (1990) 231
Band, H.R., see Allaby, J.V. A281 (1989) 291
Bandettini, A., see Bollini, D. A283 (1989) 635
Bandyopadhyay, A., see Roy, A. A286 (1989) 235
Banerjee, S., see Adeva, B. A289 (1990) 35
Banham, M.F., see Lowles, I.M. A286 (1989) 556
Bannenberg, J.G., see Urbanus, W.H. A281 (1989) 28
Bannenberg, J.G., see Wojke, R.G.C. A288 (1990) 329
Bannenberg, J.G., see Urbanus, W.H. A290 (1990) 1
Bao, J., see Adeva, B. A289 (1990) 35

Barabash, L.S., E. Belcarz, Yu.B. Gurov, E.I. Maltsev, L.P. Mészáros, Yu.P. Petukhov, A.G. Pimenov and V.G. Sandukovsky, Semiconductor microstrip detector with a resistive layer A288 (1990) 375
Baragiola, R.A., see De Ferrariis, L.F. A287 (1990) 642
Barakhtin, B.K., I.A. Ovid'ko and E.P. Savicheva, Synchrotron radiation studies of defect structure evolution in aluminium during creep A282 (1989) 651
Barasch, see the DØ Calorimeter Group A288 (1990) 662
Barashenkov, V.S., A.N. Sosnin, S.N. Fedotov and P.I. Taranenko, Simulation of induced radioactivity in collimating materials under cosmic proton irradiation A284 (1989) 509
Barberis, D., see Antinori, F. A288 (1990) 82
Barbier, G., see AMORPHA Collaboration A281 (1989) 528
Barbier, G., see Adeva, B. A289 (1990) 35
Barczewski, T., see Amendolia, S.R. A283 (1989) 573
Barczewski, T., L.A.T. Bauerdick, L. Bellantoni, E. Blucher, W. Blum, J. Boudreau, D. Cinabro, J. Conway, D.F. Cowen, J. Fagerstrom, F. Fidecaro, B. Gobbo, A. Halley, S. Haywood, A. Jahn, R.C. Jared, R. Johnson, M. Kasemann, B. Leclaire, I. Lehraus, T. Lohse, A. Lusiani, P.S. Marrocchesi, J. May, E. Milotti, A. Minten, J. Pater, J. Richstein, R. Richter, W. Richter, S. Röhn, L. Rolandi, A. Roth, H. Rotscheidt, D. Schlatter, M. Schmelling, R. Settles, F. Steeg, G. Stefanini, M. Takashima, W. Tejessy, J. Thomas, A. Vayaki, J. Wear, W. Wiedenmann, W. Witzeling and S.L. Wu, Gas system for ALEPH TPC A289 (1990) 176
Barday, S., see Friant, A. A283 (1989) 318
Bardy, J., see Dei-Cas, R. A285 (1989) 320
Bareyre, P., see Alitti, J. A283 (1989) 646
Barillari, T., see LAA-LAD Group A289 (1990) 351
Barish, B.C., see Abrams, G. A281 (1989) 55
Barklow, T., see Abrams, G. A281 (1989) 55
Barlag, S., see ASTERIX Collaboration A286 (1989) 76
Barnes, P.D., see Garabatos, C. A283 (1989) 553
Barnes, P.D., see Cherney, M. A283 (1989) 796
Barnett, B., see Adolphsen, C. A288 (1990) 257
Barnett, B.A., see Abrams, G. A281 (1989) 55
Baron, A.Q.R., see Dowell, D.H. A286 (1989) 183
Barone, F., see Bradaschia, C. A289 (1990) 518
Barone, L., see Adeva, B. A289 (1990) 35
Barrandon, G., see Friant, A. A283 (1989) 227
Bärring, O., see Brand, C. A283 (1989) 567
Bärring, O., Energy loss calculations with fast Fourier transform routines A284 (1989) 459
Barry, W. and S.Y.R. Liu, Characteristic impedance and loss data for a common stripline pickup geometry ... A288 (1990) 593
Barsotti, E., see Lankford, A.J. A289 (1990) 597
Barstow, M.A., J.E. Lees and G.W. Fraser, Observation of microchannel plate multifibre structure in soft X-ray images (*Letter to the Editor*) A286 (1989) 350
Barta, T., see Andai, A. A286 (1989) 457
Bartelt, J., see Abrams, G. A281 (1989) 55
Barth, J., see Johnson, R.L. A290 (1990) 606
Bartha, L., Á.Z. Kiss, E. Koltay and Gy. Szabó, Light heavy-ion and molecular beams from a radio-frequency ion source A287 (1990) 156
Barthell, B.L. and T.A. Archuleta, Pinhole plate diagnostic for neutral particle beam accelerator A282 (1989) 169
Baru, S.E., see Gaponov, Yu.A. A282 (1989) 695
Baru, S.E., A.G. Khabakhpashev and L.I. Shekhtman, Multiwire proportional chamber for a digital radiographic installation A283 (1989) 431
Baru, S.E., see Anashkin, E.V. A283 (1989) 752
Baruchel, J., see Brocker, C. A290 (1990) 303
Bärwolff, H., U. Gensch, U. Harder, H. Henschel, H. Kaufmann, M. Klein, P. Kostka, H. Lippold, J. Meissner, T. Naumann and M. Winde, Performance of prototypes of the H1 outer z-drift chamber A283 (1989) 467
Baryshev, V.B., see Török, Sz. A282 (1989) 499
Baryshev, V.B., see Khvostova, V.P. A282 (1989) 516
Baryshev, V.B., N.G. Gavrilov, A.V. Daryin, K.V. Zolotarev, G.N. Kulipanov, N.A. Mezentsev and Ya.V. Terekhov, Status of X-ray fluorescence elemental analysis at VEPP-3 ..... A282 (1989) 570
Baryshev, V.B., see Tarasov, L.S. A282 (1989) 669
Baryshev, V.B., see Kudryashova, A.F. A282 (1989) 673
Baryshev, V.B., see Tarasov, L.S. A282 (1989) 677
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Bassato, G., see Fortuna, G. . . . A287 (1990) 253
Basti, G., see Adeva, B. . . . A289 (1990) 35
Bateman, J.E., J.F. Connolly, R. Stephenson, P.K. Marsden, R.J. Ott and J. Suckling, Development studies for a high-rate positron camera based on a BaF_2/TMAE system . . . A283 (1989) 436
Bates, J.C., see Mampe, W. . . . A284 (1989) 111
Bates, J.C., see Tervisidis, F. . . . A285 (1989) 431
Batignani, G., see Bagliesi, G. . . . A286 (1989) 61
Batley, J.R., see Akrawy, M. . . . A290 (1990) 76
Baton, J.-P., see Aderholz, M. . . . A284 (1989) 311
Battaiotto, P., M. Budinich, M. Dell'Orso, S. Esquivel, P. Gianetti, D. Passuello, L. Ristori and G. Toccaceli, The tree-search processor for real time track pattern recognition . . . A287 (1990) 431
Battistella, A., see Fortuna, G. . . . A287 (1990) 253
Battiston, R., see Benvenuti, A.C. . . . A284 (1989) 339
Battiston, R ., see Benvenuti, A.C. . . . A289 (1990) 463
Battiston, R., see LAA-LAD Group . . . A289 (1990) 351
Battiston, R., see SLD-WIC Collaboration . . . A289 (1990) 449
Battiston, R., see Benvenuti, A.C. . . . A290 (1990) 353
Battistoni, G., see Anelli, M. . . . A289 (1990) 294
Batusov, Yu.A., see Astakhov, A.Ya. . . . A283 (1989) 13
Baubillier, M., see Amery, A. . . . A283 (1989) 502
Baudelet, F., see Tolentino, H. . . . A289 (1990) 307
Bauer, P., see Golser, R. . . . A282 (1989) 185
Bauer, T.S., see Lefevere, Y. . . . A290 (1990) 34
Bauerdick, L.A.T., see Amendolia, S.R. . . . A283 (1989) 573
Bauerdick, L.A.T., see Barczewski, T. . . . A289 (1990) 176
Baumann, J., R. Gähler, A.I. Ioffe, J. Kalus and W. Mampe, Measurement of the charge of the neutron . . . A284 (1989) 130
Baumann, J., J. Kalus and W. Mampe, Neutron diffraction on a grating with monochromatic and polychromatic neutrons . . . A284 (1989) 184
Baumann, R., see Lutz, J.R. . . . A287 (1990) 166
Baumann, S., see UA6 Collaboration . . . A286 (1989) 49
Bay, A., see Adeva, B. . . . A289 (1990) 35
Bazin, C., see Couprie, M.E. . . . A282 (1989) 455
Bazin, C., see Couprie, M.E. . . . A285 (1989) 31
Bazin, D., A.C. Mueller and W.-D. Schmidt-Ott, A NE213 liquid scintillator, neutron detector designed for lifetime measurements of very neutron-rich nuclei . . . A281 (1989) 117
Bazin, D., see Blank, B. . . . A286 (1989) 160
Bean, A., see Aston, D. . . . A283 (1989) 582
Bean, A., see Aston, D. . . . A283 (1989) 590
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Beauvais, F., see Adeva, B. . . . A289 (1990) 35
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Beavis, D., see E-802 Collaboration . . . A290 (1990) 41
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Beck, F., see Azaiez, F. . . . A281 (1989) 133
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Beck, G.A., see Grässler, H. . . . A283 (1989) 622
Becker, U., see Adeva, B. . . . A289 (1990) 35
Becker, U., see Adeva, B. . . . A289 (1990) 335
Becker, U., see Adeva, B. . . . A290 (1990) 115
Beda, A.G., S.I. Burov, L.N. Bondarenko, G.V. Danilyan, P. Geltenbort, F. Gönnewein, V.L. Kuznetsov, A.N. Martemyanov, Yu.A. Mostovoii and K. Schreckenbach, Investigation of the P-odd asymmetry in the resonance scattering of neutron capture gamma-rays . . . A284 (1989) 77
Bedeschi, F., see Carithers, W.C. . . . A289 (1990) 388
Bedeschi, F., see Amendolia, S.R. . . . A289 (1990) 539
Bedrizova, M., see Drabkin, G. . . . A284 (1989) 176

Beedoe, S., see Yegneswaran, A. A290 (1990) 61
Beeman, J., see Luke, P.N. A289 (1990) 406
Beer, G.A., see ASTERIX Collaboration A286 (1989) 76
Beer, W., see Rusi El Hassani, A.J. A290 (1990) 109
Begemann-Blaich, M.L., see Fowler, M.M. A281 (1989) 517
Behrens, U., see ZEUS Calorimeter Group A289 (1990) 115
Behrens, U., see ZEUS Calorimeter Group A290 (1990) 95
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Beissel, R., see Adeva, B. A289 (1990) 35
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Bekefi, G., see Chen, S.C. A285 (1989) 290
Beker, H., see Angelis, A.L.S. A283 (1989) 762
Bel, H., see Bradaschia, C. A289 (1990) 518
Belbeoch, R., see Ortega, J.M. A285 (1989) 97
Belcarz, E., see Barabash, L.S. A288 (1990) 375
Belforte, S., see Bertolucci, S. A289 (1990) 375
Bell, F., see Rollason, A.J. A281 (1989) 147
Bell, K.W., see Akrawy, M. A290 (1990) 76
Bellantoni, L., see Barczewski, T. A289 (1990) 176
Bellazzini, R., see Angelini, F. A283 (1989) 423
Bellazzini, R., see Angelini, F. A283 (1989) 755
Bellettini, G., From here to the SSC A289 (1990) 329
Bellettini, G., see Amendolia, S.R. A289 (1990) 539
Belli, P., see Incicchitti, A. A289 (1990) 236
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Ben-Zvi, I., see Fortuna, G. A287 (1990) 253
Ben-Zvi, I., A short superconducting RFQ resonator for slow ion beams A287 (1990) 306
Bencivenni, G., see Antonelli, A. A281 (1989) 589
Bencivenni, G., see Bagliesi, G. A286 (1989) 61
Bencivenni, G., see Anelli, M. A289 (1990) 294
Bencze, Gy.L., see Astakhov, A.Ya. A283 (1989) 13
Bendig, S., see Adeva, B. A289 (1990) 35
Béné, P., see Adeva, B. A289 (1990) 35
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Bennett, S.J., see Allcock, S.C. A289 (1990) 213
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Benson, S.V., see Bhowmik, A. A281 (1989) 224
Benton, D.R., see Coulter, K.P. A288 (1990) 463

Benvenuti, A.C., L. Piemontese, A. Calcaterra, R. De Sangro, P. De Simone, I. Peruzzi, M. Piccolo, W. Busza, S.L. Cartwright, J.I. Friedman, S. Fuess, S. Gonzalez, T. Hansl-Kozanecka, H.W. Kendall, T. Lyons, L.S. Osborne, L. Rosenson, U. Schneekloth, F.E. Taylor, R. Verdier, D. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, M. Loreti, L. Pescara, J. Wyss, B. Alpat, R. Battiston, G.M. Bilei, R. Dell'Orso, G. Mantovani, M. Pauluzzi, M. Scarlatella, L. Servoli, M. Carpinelli, R. Castaldi, C. Vannini, P.G. Verdini, R.L. Messner, R.W. Zdarko and J.R. Johnson, A nonflammable gas mixture for plastic limited streamer tubes . . A284 (1989) 339

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Benvenuti, A., L. Piemontese, A. Calcaterra, R. De Sangro, P. De Simone, P.N. Burrows, S.L. Cartwright, S. Gonzales, A. Lath, U. Schneekloth, D.C. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, S. Galvagni, M. Loreti, L. Pescara, J. Wyss, B. Alpat, G.M. Bilei, B. Checcucci, R. Dell'Orso, M. Pauluzzi, L. Servoli, M. Carpinelli, R. Castaldi, U. Cazzola, C. Vannini, P.G. Verdini, R.L. Messner, R.W. Zdarko and J.R. Johnson, The digital data acquisition chain and the cosmic ray trigger system for the SLD warm iron calorimeter A289 (1990) 577

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Berdugo, J., see Adeva, B. A289 (1990) 35

Berdugo, J., see Adeva, B. A289 (1990) 335

Berdugo, J., see Adeva, B. A290 (1990) 115

Berges, P., see Adeva, B. A289 (1990) 35

Bergher, M., see Couprie, M.E. A282 (1989) 455

Bergher, M., see Ortega, J.M. A285 (1989) 97

Berglund, S., see Kobayashi, M. A281 (1989) 192

Bergsma, F., see LAA-LAD Group A289 (1990) 351

Beringer, R., A. Disco, J. Hissong, R. Majka, F.S. Rotondo, J. Sandweiss, A.J. Slaughter, E.J. Wolin and Z. Wu, Design and performance of a diffusion-suppressed streamer chamber A290 (1990) 370

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Bernardini, P., see Bertino, M. A283 (1989) 654

Bernardini, P., see Bacci, C. A286 (1989) 295

Bernasconi, A., see UA6 Collaboration A286 (1989) 49

Berneron, M., see Oed, A. A284 (1989) 223

Bernini, C., see Zucchiatti, A. A281 (1989) 341

Berset, J.C., see Angelis, A.L.S. A283 (1989) 762

Berst, J.D., see Van Apeldoorn, G. A283 (1989) 767

Berthet, M., see Adeva, B. A289 (1990) 35

Bertholet, R., see AMORPHA Collaboration A281 (1989) 528

Bertin, A., see Dei-Cas, R. A285 (1989) 320

Bertino, M., R. Cardarelli, M. Iori, F. Massa, R. Santonico, P. Bernardini, E. Gorini, F. Grancagnolo, O. Palamara, C. Pinto, G. Bressi, G. Introzzi, A. Lanza and G. Liguori, Performance of resistive plate counters at beam flux up to 140 Hz/cm^2 . . . . . A283 (1989) 654

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Bertsch, Y., see Adeva, B. A289 (1990) 35

Bertuccio, G., see Rehak, P. A288 (1990) 168

Bessonov, E.G., General and some particular solutions of the inverse problem of the particle radiation theory in external fields A282 (1989) 405

Bessonov, E.G., see Alexeev, V.I. A282 (1989) 436

Bessonov, E.G., see Alexeev, V.I. . . . A282 (1989) 439
Bessonov, E.G., Parametric free-electron lasers . . . A282 (1989) 442
Best, R.W.B., see Van Amersfoort, P.W. . . . A285 (1989) 67
Best, R.W.B., see Oepts, D. . . . A285 (1989) 204
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Bethge, K., see Stiebing, K.E. . . . A282 (1989) 206
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Betker, A.C. and C.A. Gagliardi, A new approach to magnetic spectrometers . . . A283 (1989) 67
Betker, A.C., see Gagliardi, C.A. . . . A284 (1989) 356
Betts, R.R., see Beavis, D. . . . A281 (1989) 367
Betts, R.R., see Smith, A.E. . . . A289 (1990) 231
Betts, R.R., see E-802 Collaboration . . . A290 (1990) 41
Beusch, W., see Angelini, C. . . . A281 (1989) 50
Beusch, W., see Antinori, F. . . . A288 (1990) 82
Beusch, W., see WA84 Collaboration . . . A289 (1990) 342
Beusch, W., see WA84 Collaboration . . . A289 (1990) 356
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Beyerle, A.G., see Patt, B.E. . . . A283 (1989) 215
Beyerle, A.G., see Gerrish, V.M. . . . A283 (1989) 220
Bharuth-Ram, K., see McMurray, W.R. . . . A288 (1990) 421
Bhat, C.L., A.K. Tickoo, H.S. Rawat, I.K. Kaul, M.L. Sapru, S.K. Kaul, R.K. Kaul, V.K. Senecha and R.C. Rannot, A novel method for stabilizing singles rates in atmospheric Cherenkov telescopes . . . A281 (1989) 207
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Biechel, G., see Lutz, J.R. . . . A287 (1990) 166
Bienz, T., see Aston, D. . . . A283 (1989) 582
Bienz, T., see Aston, D. . . . A283 (1989) 590
Bieser, F.S., see Kobayashi, T. . . . A284 (1989) 381
Biglari, B., see Samimi, M. . . . A283 (1989) 243
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Bijleveld, J.H.M., see Lefevere, Y. . . . A290 (1990) 34
Biland, A., see Adeva, B. . . . A289 (1990) 35
Bilei, G.M., see Benvenuti, A.C. . . . A284 (1989) 339
Bilei, G.M., see SLD-WIC Collaboration . . . A289 (1990) 449
Bilei, G.M., see Benvenuti, A.C. . . . A289 (1990) 463
Bilei, G.M., see Benvenuti, A. . . . A289 (1990) 577
Bilei, G.M., see Benvenuti, A.C. . . . A290 (1990) 353

Billardon, M., see Couprie, M.E. . . . A282 (1989) 455
Billardon, M., see Couprie, M.E. . . . A285 (1989) 31
Billerey, R., see AMORPHA Collaboration . . . A281 (1989) 528
Billoir, P., see Brand, C. . . . A283 (1989) 567
Binder, R., see Kirlin, P.S. . . . A289 (1990) 261
Bird, F., see Aston, D. . . . A283 (1989) 582
Bird, F., see Aston, D. . . . A283 (1989) 590
Birien, P., see Moalem, A. . . . A289 (1990) 168
Birkholz, U., see Rosenzweig, J. . . . A283 (1989) 255
Birsa, R., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Birstein, L., see E-802 Collaboration . . . A290 (1990) 41
Bischoff, A., see Adeva, B. . . . A289 (1990) 35
Bischops, M., see Adeva, B. . . . A289 (1990) 35
Bisello, D., see Benvenuti, A.C. . . . A284 (1989) 339
Bisello, D., see SLD-WIC Collaboration . . . A289 (1990) 449
Bisello, D., see Benvenuti, A.C. . . . A289 (1990) 463
Bisello, D., see Benvenuti, A. . . . A289 (1990) 577
Bisello, D., see Benvenuti, A.C. . . . A290 (1990) 353
Bisoffi, G., see Fortuna, G. . . . A287 (1990) 253
Bisoffi, G., see Krämer, D. . . . A287 (1990) 268
Bisoffi, G., M. Grieser, E. Jaeschke, D. Krämer and A. Noda, Radiofrequency stacking experiments at the Heidelberg test storage ring . . . A287 (1990) 320
Bisoffi, G., see Steck, M. . . . A287 (1990) 324
Bizot, J.C., see ASTERIX Collaboration . . . A286 (1989) 76
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Bizzarri, R., see Adeva, B. . . . A289 (1990) 35
Bjelkhagen, H., see Naon, R. . . . A283 (1989) 24
Blaes, R., see Garabatos, C. . . . A283 (1989) 553
Blaes, R., see Cherney, M. . . . A283 (1989) 796
Blaich, T., see Fowler, M.M. . . . A281 (1989) 517
Blaising, J.J., see Adeva, B. . . . A289 (1990) 35
Blanc, M., see Adeva, B. . . . A289 (1990) 35
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Blann, M., see Kataria, S.K. . . . A288 (1990) 585
Blatt, R., see Bultena, S. . . . A286 (1989) 317
Blau, W., see Zschech, E. . . . A282 (1989) 586
Blaylock, G., see Alitti, J. . . . A283 (1989) 646
Blazey, G.C., see Kewley, D. . . . A290 (1990) 346
Blinov, G.A., see Anashin, V.V. . . . A282 (1989) 386
Bloch, D., see Van Apeldoorn, G. . . . A283 (1989) 767
Blockus, D., see Abrams, G. . . . A281 (1989) 55
Blömeke, P., see Adeva, B. . . . A289 (1990) 35
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Bloomer, M.A., see Beavis, D. . . . A281 (1989) 367
Bloomer, M.A., see E-802 Collaboration . . . A290 (1990) 41
Blucher, E., see Amendolia, S.R. . . . A283 (1989) 573
Blucher, E., see Barczewski, T. . . . A289 (1990) 176
Blue, T.E., see Wang, C.K. . . . A290 (1990) 237
Bluem, H., see Pershing, D.E. . . . A285 (1989) 56
Bluem, H., see Freund, H.P. . . . A285 (1989) 169
Blum, M., see Krämer, D. . . . A287 (1990) 268
Blum, M., see Steck, M. . . . A287 (1990) 324
Blum, W., see Amendolia, S.R. . . . A283 (1989) 573

Blum, W., see Barczewski, T. . . . A289 (1990) 176
Blume, H.T., see Allaby, J.V. . . . A281 (1989) 291
Blumenfeld, B., see Chi, C.Y. . . . A281 (1989) 448
Blumenfeld, B., see Adeva, B. . . . A289 (1990) 35
Blumenfeld, Y., see Villari, A.C.C. . . . A281 (1989) 240
Boaretto, E., see Berkovits, D. . . . A281 (1989) 663
Bobbink, G.J., see Adeva, B. . . . A289 (1990) 35
Bobbink, G.J., see Adeva, B. . . . A289 (1990) 335
Bobbink, G.J., see Adeva, B. . . . A290 (1990) 115
Bobin, J.L., see Briand, J.P. . . . A285 (1989) 547
Bobrov, V.A., see Tarasov, L.S. . . . A282 (1989) 669
Boca, G., see Park, S. . . . A289 (1990) 496
Bocciolini, M., see Adeva, B. . . . A289 (1990) 35
Bock, P., see Fischer, H.M. . . . A283 (1989) 492
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Boero, M., see Manfredotti, C. . . . A286 (1989) 238
Boffin, K.D., see Adeva, B. . . . A289 (1990) 35
Bogaty, J.M., see Den Hartog, P.K. . . . A287 (1990) 235
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Bohlen, W., see Adeva, B. . . . A289 (1990) 35
Böhm, A., see Adeva, B. . . . A289 (1990) 35
Bohn, T., see Carithers, W.C. . . . A289 (1990) 388
Böhringer, T., see Adeva, B. . . . A289 (1990) 35
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Bonamy, P., see Alitti, J. . . . A283 (1989) 646
Bonazzola, S., see Bradaschia, C. . . . A289 (1990) 518
Bond, P.D., see E-802 Collaboration . . . A290 (1990) 41
Bondarenko, K.P., see Popov, A.N. . . . A282 (1989) 510
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Bonetti, Cl., see Dei-Cas, R. . . . A285 (1989) 320
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Bonner, B.E., see Etkin, A. A283 (1989) 557
Bonvicini, G., see Abrams, G. A281 (1989) 55
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Booth, P.S.L., see Amery, A. A283 (1989) 502
Bopp, C., see Adeva, B. A289 (1990) 35
Boragno, C., see Beverini, N. A289 (1990) 532
Boratov, M., see Amery, A. A283 (1989) 502
Borel, H., see Döhner, J. A284 (1989) 123
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Borer, K., see Beuville, E. A288 (1990) 157
Borer, K., see Ansari, R. A288 (1990) 240
Borgeaud, P., see Brand, C. A283 (1989) 567
Borggreen, J., see Furuno, K. A281 (1989) 10
Borgia, B., see Adeva, B. A289 (1990) 35
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Boscherini, D., see LAA-LAD Group A289 (1990) 351
Boscolo, I., see Bonifacio, R. A289 (1990) 1
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Bosser, J., see Poth, H. A287 (1990) 328
Bossi, F., see Antonelli, A. A281 (1989) 589
Bossi, F., see Bagliesi, G. A286 (1989) 61
Boswell, C., see Abrams, G. A281 (1989) 55
Boswell, C., see Adolphsen, C. A288 (1990) 257
Boswell, C., see Carithers, W.C. A289 (1990) 388
Botlo, M., see ASTERIX Collaboration A286 (1989) 76
Botman, J.I.M., see Ernst, G.J. A285 (1989) 71
Böttcher, J., see Bodmann, B. A286 (1989) 214
Böttger, R., S. Guldbakke, H. Klein, H. Schölermann, H. Schuhmacher and H. Strzelczyk, Problems associated with the production of monoenergetic neutrons A282 (1989) 358
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Bottolier, J.F., see Adeva, B. . . . A289 (1990) 35
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Bouclier, R., see Solomey, N. . . . A283 (1989) 673
Bouclier, R., see Vasileiadis, G. . . . A289 (1990) 618
Boudard, A., see Bonin, B. . . . A288 (1990) 379
Boudard, A., see Bonin, B. . . . A288 (1990) 389
Boudreau, J., see Amendolia, S.R. . . . A283 (1989) 573
Boudreau, J., see Barczewski, T. . . . A289 (1990) 176
Bourdinaud, M., see Aderholz, M. . . . A284 (1989) 311
Bourdon, J.C., see Ortega, J.M. . . . A285 (1989) 97
Bourgeois, P., see Ortega, J.M. . . . A285 (1989) 97
Bourgeois, W., see Gruber, A. . . . A282 (1989) 87
Bourquin, M., see Adeva, B. . . . A289 (1990) 35
Boutigny, D., see Adeva, B. . . . A289 (1990) 35
Boutin, J-G., see Pinfold, J.L. . . . A286 (1989) 345
Boutonnet, C., see Brand, C. . . . A283 (1989) 567
Bowditch, P., see Adeva, B. . . . A289 (1990) 35
Bowen, M., see Majewski, S. . . . A281 (1989) 497
Bowen, M., see Majewski, S. . . . A281 (1989) 500
Bower, C.R., see Heinz, R.M. . . . A281 (1989) 213
Bowles, T.J., see Auerbach, L. . . . A287 (1990) 378
Bowman, C.D., see Coulter, K.P. . . . A288 (1990) 463
Bowman, J.D., see Coulter, K.P. . . . A288 (1990) 463
Boyarski, A., see Abrams, G. . . . A281 (1989) 55
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Bradaschia, C., see Bagliesi, G. . . . A286 (1989) 61
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Brahmia, A., see Collins, S.P. . . . A290 (1990) 254
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Brandt, Ch., see Heugel, J. . . . A287 (1990) 109
Branson, J.G., see Adeva, B. . . . A289 (1990) 35
Branson, J.G., see Adeva, B. . . . A289 (1990) 335
Branson, J.G., see Adeva, B. . . . A290 (1990) 115
Brault, L., see Amery, A. . . . A283 (1989) 502
Braun, D., see Adeva, B. . . . A289 (1990) 35

Braun, G., see Hamann, N. . . . A281 (1989) 379
Braun, H., see Garabatos, C. . . . A283 (1989) 553
Braun, H., see Cherney, M. . . . A283 (1989) 796
Braune, K., see Abrams, G. . . . A281 (1989) 55
Bräuninger, H., see Strüder, L. . . . A288 (1990) 227
Bravo-Ortega, A., see Flores-Llamas, H. . . . A287 (1990) 557
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Breakstone, A., see Adolphsen, C. . . . A288 (1990) 257
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Breskin, A., see Dangendorf, V. . . . A289 (1990) 322
Bressi, G., see Bertino, M. . . . A283 (1989) 654
Breuer, H., see Lefevere, Y. . . . A290 (1990) 34
Breuker, H., see Fischer, H.M. . . . A283 (1989) 492
Brez, A., see Angelini, F. . . . A283 (1989) 423
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Bricman, C., see Stichelbaut, F. . . . A283 (1989) 792
Brient, C.E., see Saraf, S.K. . . . A288 (1990) 451
Brillet, A., see Bradaschia, C. . . . A289 (1990) 518
Brisard, F., see Simon, G. . . . A286 (1989) 220
Brisson, P., see Cadoret, R. . . . A283 (1989) 339
Britt, H.C., see Fowler, M.M. . . . A281 (1989) 517
Brock, I.C., see Adeva, B. . . . A289 (1990) 35
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Brofferio, C., see Alessandrello, A. . . . A289 (1990) 504
Brom, J.M., see Abrams, G. . . . A281 (1989) 55
Brom, J.M., see Garabatos, C. . . . A283 (1989) 553
Brom, J.M., see Cherney, M. . . . A283 (1989) 796
Brooks, C.B., see ZEUS-UK Collaboration . . . A283 (1989) 477
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Brown, J.K., see Bhowmik, A. . . . A281 (1989) 224
Brown, R.M., see Akrawy, M. . . . A290 (1990) 76
Browne, C.P., see Lamm, L.O. . . . A281 (1989) 143
Bruder, M., see Siffert, P. . . . A283 (1989) 363
Brügger, M., see Overbeck, M. . . . A288 (1990) 413
Brunet, P., see Ortega, J.M. . . . A285 (1989) 97
Bruni, G., see LAA-LAD Group . . . A289 (1990) 351
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Buchanan, J.A., see Etkin, A. . . . A283 (1989) 557
Buchholz, D., see Park, S. . . . A289 (1990) 496
Buchholz, M., see Adeva, B. . . . A289 (1990) 35
Buchmann, L., see D'Auria, J.M. . . . A288 (1990) 354
Buchmüller, J., see Michel, E. . . . A283 (1989) 544
Bücken, B., see Adeva, B. . . . A289 (1990) 35
Buckley, E., see Bonetti, S. . . . A286 (1989) 135
Budagov, Yu.A., V.V. Glagolev, A.A. Omelyanenko, A.A. Semenov, V. Hlinka, P. Povinec, B. Sitar, E. Kladiva, M. Seman, J. Špalek and A.M. Artykov, Tests of a time projection chamber module with delay line readout . . . A284 (1989) 433
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Burchat, P., see Bambade, P. . . . A290 (1990) 11
Burchat, P.R., see Abrams, G. . . . A281 (1989) 55
Burel, R., see Adeva, B. . . . A289 (1990) 35
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Burger, J.D., see Adeva, B. . . . A289 (1990) 35
Burger, J.D., see Adeva, B. . . . A289 (1990) 335
Burger, J.D., see Adeva, B. . . . A290 (1990) 115
Burger, P., see Verplancke, J. . . . A288 (1990) 287
Burgos, C., see Adeva, B. . . . A289 (1990) 35
Burgos, C., see Adeva, B. . . . A289 (1990) 335
Burgos, C., see Adeva, B. . . . A290 (1990) 115
Burke, D., see Bambade, P. . . . A290 (1990) 11
Burke, D.L., see Abrams, G. . . . A281 (1989) 55
Burke, W., see Talmadge, S. . . . A285 (1989) 333
Burkhard, M., see Lorenzen, P. . . . A282 (1989) 213
Burman, R.L., see Allen, R.C. . . . A284 (1989) 347
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Burov, S.I., see Beda, A.G. . . . A284 (1989) 77
Burq, J.P., see Adeva, B. . . . A289 (1990) 35
Burrows, P.N., see SLD-WIC Collaboration . . . A289 (1990) 449
Burrows, P.N., see Benvenuti, A.C. . . . A289 (1990) 463
Burrows, P.N., see Benvenuti, A. . . . A289 (1990) 577
Burrows, P.N., see Benvenuti, A.C. . . . A290 (1990) 353
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Burtak, F., see Drexlin, G. . . . A289 (1990) 490
Busetto, G., see Bacci, C. . . . A284 (1989) 536
Buso, G., see Fortuna, G. . . . A287 (1990) 253
Buso, P., see Pengo, R. . . . A287 (1990) 309
Busza, W., see Benvenuti, A.C. . . . A284 (1989) 339
Busza, W., see Benvenuti, A.C. . . . A289 (1990) 463
Busza, W., see Benvenuti, A.C. . . . A290 (1990) 353
Butler, F., see Abrams, G. . . . A281 (1989) 55
Butler, J., see ASTERIX Collaboration . . . A286 (1989) 76
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Byers, B.L., see Benvenuti, A.C. . . . A289 (1990) 463
Byers, B.L., see Benvenuti, A.C. . . . A290 (1990) 353
Byers, J.A., see Jong, R.A. . . . A285 (1989) 379
Byrd, R.C., see Amian, W.B. . . . A281 (1989) 353
Byrd, R.C., see Gavron, A. . . . A290 (1990) 139
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Bystricky, J., see Yegneswaran, A. . . . A290 (1990) 61

Cabral-Prieto, A., see Flores-Llamas, H. . . . A287 (1990) 557
Cabrera, B., see Young, B.A. . . . A288 (1990) 119
Caccia, B., see Bacilieri, P. . . . A289 (1990) 610
Caccia, M., see Dijkstra, H. . . . A289 (1990) 400
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Caillat, M., see Adeva, B. . . . A289 (1990) 35
Cairanti, S., see Brand, C. . . . A283 (1989) 567
Calabretta, L., see Ciavola, G. . . . A287 (1990) 21
Calcaterra, A., see Benvenuti, A.C. . . . A284 (1989) 339
Calcaterra, A., see SLD-WIC Collaboration . . . A289 (1990) 449
Calcaterra, A., see Benvenuti, A.C. . . . A289 (1990) 463
Calcaterra, A., see Benvenuti, A. . . . A289 (1990) 577
Calcaterra, A., see Benvenuti, A.C. . . . A290 (1990) 353
Caldwell, A., see Möschen, J. . . . A288 (1990) 180
Caldwell, A., see ZEUS Calorimeter Group . . . A290 (1990) 95
Caldwell, D., see Aston, D. . . . A283 (1989) 582
Caldwell, D., see Aston, D. . . . A283 (1989) 590
Calligarich, E., see Benetti, P. . . . A281 (1989) 397
Caloi, R., see Dattoli, G. . . . A285 (1989) 108
Calvino, F., see Abrams, G. . . . A281 (1989) 55
Camberlin, B., see Adeva, B. . . . A289 (1990) 35
Cambiaghi, M., see Benetti, P. . . . A281 (1989) 397
Cameron, J., see Cruvinel, P.E. . . . A287 (1990) 580
Camilleri, L., see UA6 Collaboration . . . A286 (1989) 49
Camin, D.V., see Alessandrello, A. . . . A289 (1990) 426
Camin, D.V., see Alessandrello, A. . . . A289 (1990) 504
Campagne, J.E., see Amery, A. . . . A283 (1989) 502
Campana, D., see Adeva, B. . . . A289 (1990) 35
Campana, D., see Adeva, B. . . . A289 (1990) 335
Campana, D., see Adeva, B. . . . A290 (1990) 115
Campana, P., see Antonelli, A. . . . A281 (1989) 589
Campana, P., see Bagliesi, G. . . . A286 (1989) 61
Campana, P., see Anelli, M. . . . A289 (1990) 294
Campanella, M., see Bonetti, S. . . . A286 (1989) 135
Campbell, A.B., see Harihar, P. . . . A283 (1989) 62
Campbell, M., see Krummenacher, F. . . . A288 (1990) 176
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Campos Fauth, A., see Anelli, M. . . . A289 (1990) 294
Camps, C., see Adeva, B. . . . A289 (1990) 35

Canale, V., see Adeva, B. . . . A289 (1990) 35
Caner, A., see Bacci, C. . . . A284 (1989) 536
Cantoni, P., see Aulchenko, V.M. . . . A289 (1990) 468
Cantoni, P., see Nava, F. . . . A290 (1990) 457
Capasso, F., see Ripamonti, G. . . . A288 (1990) 99
Capell, M., see L3 Collaboration . . . A285 (1989) 403
Capell, M., see Adeva, B. . . . A289 (1990) 35
Capon, G., see Antonelli, A. . . . A281 (1989) 589
Capon, G., see Bagliesi, G. . . . A286 (1989) 61
Capozzi, M., see Bradaschia, C. . . . A289 (1990) 518
Carbonara, F., see Adeva, B. . . . A289 (1990) 35
Carbonara, F., see Adeva, B. . . . A289 (1990) 335
Carbonara, F., see Adeva, B. . . . A290 (1990) 115
Carboni, G., see Bosi, F. . . . A283 (1989) 532
Cardarelli, R., see Bertino, M. . . . A283 (1989) 654
Cardarelli, R., see Bacilieri, P. . . . A289 (1990) 610
Cardini, A., see WA84 Collaboration . . . A289 (1990) 342
Cardini, A., see WA84 Collaboration . . . A289 (1990) 356
Cardona, M., see Johnson, R.L. . . . A290 (1990) 606
Carey, D.C., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Caria, M., see ASTERIX Collaboration . . . A286 (1989) 76
Carithers, W.C., R.P. Ely, C. Haber, S. Holland, F. Kirsten, S. Kleinfelder, H. Spieler, W.C. Wester, M. Wong, F. Bedeschi, S. Galeotti, A. Menzione, G. Punzi, F. Raffaelli, F. Zetti, D. Amidei, T. Bohn, H. Carter, M. Hyrcyk, R. Kephart, C. Nelson, S. Segler, D. Tousignant, S. Tkacek, A. Tollestrup, K. Turner, R. Yarema, T. Zimmermann, C. Boswell, J. Matthews and S. Vejcik, The CDF SVX: a silicon vertex detector for a hadron collider . . . A289 (1990) 388
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Carlsten, B.E., see Lumpkin, A.H. . . . A285 (1989) 343
Carminati, F., see Adeva, B. . . . A289 (1990) 35
Carnegie, R.K., see Carter, J.R. . . . A286 (1989) 99
Carpenter, J.M., see Epperson, J.E. . . . A289 (1990) 30
Carpinelli, M., see Benvenuti, A.C. . . . A284 (1989) 339
Carpinelli, M., see SLD-WIC Collaboration . . . A289 (1990) 449
Carpinelli, M., see Benvenuti, A.C. . . . A289 (1990) 463
Carpinelli, M., see Benvenuti, A. . . . A289 (1990) 577
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Carroll, J., see Yegneswaran, A. . . . A290 (1990) 61
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Carter, H., see Carithers, W.C. . . . A289 (1990) 388
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Carter, J.R., see Akrawy, M. . . . A290 (1990) 76
Cartwright, S.L., see Benvenuti, A.C. . . . A284 (1989) 339
Cartwright, S.L., see SLD-WIC Collaboration . . . A289 (1990) 449

Cartwright, S.L., see Benvenuti, A.C. . . . A289 (1990) 463
Cartwright, S.L., see Benvenuti, A. . . . A289 (1990) 577
Cartwright, S.L., see Benvenuti, A.C. . . . A290 (1990) 353
Carugno, G., see Bonetti, S. . . . A286 (1989) 135
Casagrande, F., see Bonifacio, R. . . . A289 (1990) 1
Cashmore, R.J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Casoli, P., see Bacci, C. . . . A284 (1989) 536
Castaldi, R., see Benvenuti, A.C. . . . A284 (1989) 339
Castaldi, R., see SLD-WIC Collaboration . . . A289 (1990) 449
Castaldi, R., see Benvenuti, A.C. . . . A289 (1990) 463
Castaldi, R., see Benvenuti, A. . . . A289 (1990) 577
Castaldi, R., see Benvenuti, A.C. . . . A290 (1990) 353
Castaño, B., see Garabatos, C. . . . A283 (1989) 553
Castaño, B., see Cherney, M. . . . A283 (1989) 796
Casteneda, C., see Murray, K.M. . . . A281 (1989) 616
Castillo, M.V., see Benlloch, J.M. . . . A290 (1990) 327
Castoldi, C., see Park, S. . . . A289 (1990) 496
Castro, A., see Benvenuti, A.C. . . . A284 (1989) 339
Castro, A., see SLD-WIC Collaboration . . . A289 (1990) 449
Castro, A., see Benvenuti, A.C. . . . A289 (1990) 463
Castro, A., see Benvenuti, A. . . . A289 (1990) 577
Castro, A., see Benvenuti, A.C. . . . A290 (1990) 353
Castro, H., see LAA-LAD Group . . . A289 (1990) 351
Catanesi, M.G., see Bagliesi, G. . . . A286 (1989) 61
Cates, G.D., see Coulter, K.P. . . . A288 (1990) 463
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Cavallo, F.R., see Bollini, D. . . . A283 (1989) 635
Cavasinni, V., see Bosi, F. . . . A283 (1989) 532
Cavata, C., see Burgei, R. . . . A287 (1990) 481
Cavenago, M., see Fortuna, G. . . . A287 (1990) 253
Cazzola, U., see Benvenuti, A. . . . A289 (1990) 577
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Cenci, P., see Beuville, E. . . . A288 (1990) 68
Cenci, P., see Ansari, R. . . . A288 (1990) 240
Cennini, P., see Bacci, C. . . . A284 (1989) 536
Cennini, P., see Bonetti, S. . . . A286 (1989) 135
Centro, S., see Bacci, C. . . . A284 (1989) 536
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Cerrada, M., see Adeva, B. . . . A289 (1990) 335
Cerrada, M., see Adeva, B. . . . A290 (1990) 115
Cerrina, F., see Chapman, K. . . . A283 (1989) 88
Cerrito, L., see Amery, A. . . . A283 (1989) 502
Cervellera, F., see Fortuna, G. . . . A287 (1990) 253
Cervellera, F., see Dainelli, A. . . . A287 (1990) 279
Cervelli, F., see Bertolucci, S. . . . A289 (1990) 375
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Cesaroni, F., see Bizzarri, R. . . . A283 (1989) 799
Cesaroni, F., see Adeva, B. . . . A289 (1990) 35
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Chadwick, G.B., see Allaby, J.V. . . . A281 (1989) 291
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Chan, Y.D., see Fowler, M.M. . . . A281 (1989) 517
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Chanel, M., see Poth, H. . . . A287 (1990) 328
Chang, S.D., see Kodama, K. . . . A289 (1990) 146
Chang, S.P., see Bhattacharjee, A. . . . A285 (1989) 158
Chang, Y.H., see Adeva, B. . . . A289 (1990) 35
Chang, Y.H., see Adeva, B. . . . A289 (1990) 335
Chang, Y.H., see Adeva, B. . . . A290 (1990) 115
Chapin, T.J., see Bertolucci, S. . . . A289 (1990) 375
Chapman, J., see Abrams, G. . . . A281 (1989) 55
Chapman, J.W., see Adeva, B. . . . A289 (1990) 35
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Chaput, R., see Ortega, J.M. . . . A285 (1989) 97
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Charalambous, C., see Papastefanou, C. . . . A281 (1989) 406
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Charpak, G., see Solomey, N. . . . A283 (1989) 673
Charpak, G., see Peskov, V. . . . A283 (1989) 786
Charpak, G., see Astier, P. . . . A289 (1990) 626
Charpentier, P., see Brand, C. . . . A283 (1989) 567
Chasman, C., see E-802 Collaboration . . . A290 (1990) 41
Checcucci, B., see Benvenuti, A. . . . A289 (1990) 577
Chechetenko, V.F., see Boldyshev, V.P. . . . A282 (1989) 390
Chechik, R., see Breskin, A. . . . A286 (1989) 251
Chechik, R., see Overbeck, M. . . . A288 (1990) 413
Chechik, R., see Dangendorf, V. . . . A289 (1990) 322
Chechin, A.I., see Avaev, A.V. . . . A282 (1989) 398
Chemarin, M., see Adeva, B. . . . A289 (1990) 35
Chemin, J.F., see Azaiez, F. . . . A281 (1989) 133
Chen, A., see Adeva, B. . . . A289 (1990) 35
Chen, C., see Adeva, B. . . . A289 (1990) 35
Chen, G.M., see L3 Collaboration . . . A288 (1990) 364
Chen, H.F., see Adeva, B. . . . A289 (1990) 35
Chen, H.H., see Allen, R.C. . . . A284 (1989) 347
Chen, H.S., see L3 Collaboration . . . A285 (1989) 403
Chen, H.S., see L3 Collaboration . . . A288 (1990) 364
Chen, H.S., see Adeva, B. . . . A289 (1990) 35
Chen Kefan, see Su Tongling . . . A287 (1990) 452
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Chen, M.L., see Adeva, B. . . . A289 (1990) 35
Chen, M.L., see Adeva, B. . . . A289 (1990) 335
Chen, M.L., see Adeva, B. . . . A290 (1990) 115
Chen Qin, see Su Tongling . . . A287 (1990) 452
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Chendvankar, S.R., see Adeva, B. A289 (1990) 35
Cheng, A.Y., see Markakis, J.M. A283 (1989) 236
Cheng Xiaowu, The influence of target impurities on the accuracy of reaction cross section measurements A282 (1989) 312
Cheon, B.G., see Kodama, K. A289 (1990) 146
Cheremukhina, G.A., see Zanevsky, Yu.V. A283 (1989) 462
Cherenkov, P.A., see Alexeev, V.I. A282 (1989) 436
Cherkashin, A.E., see Devyatov, V.G. A282 (1989) 688
Chernenko, S.P., see Zanevsky, Yu.V. A283 (1989) 462
Cherney, M., see Garabatos, C. A283 (1989) 553
Cherney, M., representing the NA36 Collaboration: P. Álvarez de Lara, E. Andersen, P.D. Barnes, R. Blaes, H. Braun, J.M. Brom, B. Castaño, M. Cherney, M. Cohler, B. De la Cruz, G.E. Diebold, C. Fernández, G. Franklin, C. Garabatos, J.A. Garzón, W.M. Geist, D.E. Greiner, C.R. Gruhn, M. Hafidouni, M. Heiden, C.P. De los Heros, J. Hubrec, D. Huss, J.L. Jacquot, P.G. Jones, J.P.M. Kuipers, P. Ladrón de Guevara, D. Liko, G. Lovhoiden, J. MacNaughton, A. Michalon, M.E. Michalon-Mentzer, J. Mosquera, Z. Natkaniec, J.M. Nelson, G. Neuhofer, M. Pló, P. Porth, B. Powell, B. Quinn, A. Ramil, J.L. Riester, H. Rohringer, G. Sakrejda, I. Sakrejda, R. Schumacher, T. Thorsteinsen, J. Traxler, C. Voltolini, Y. Xia, A. Yanēz, P. Yepes and R. Zybert, High-speed readout for a time projection chamber in the NA36 data acquisition system A283 (1989) 796
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Chesi, E., see Beuville, E. A288 (1990) 157
Cheu, E., see Katayama, N. A283 (1989) 539
Cheu, E., see Adler, J. A283 (1989) 679
Chevallier, P., see Briand, J.P. A285 (1989) 547
Chevenier, G., see Adeva, B. A289 (1990) 35
Cheynis, B., see Benrachi, F. A281 (1989) 137
Cheynis, B., see AMORPHA Collaboration A281 (1989) 528
Chi, C.Y., N. Kondakis, W. Lee, B. Rubin, R. Seto, C. Stoughton, G. Tzanakos, W.P. Hogan, E. O'Brien, T. O'Halloran, K. Reardon, S. Salman, P.D. Sheldon, G.W. Sullivan, B. Blumenfeld, L. Chichura, C.Y. Chien, J. Krizmanic, E. Lincke, W. Lyle, L. Lueking, L. Madansky and A. Pevsner, Segmented ionization chambers for high intensity beam measurements A281 (1989) 448
Chiarella, V., see Antonelli, A. A281 (1989) 589
Chiarella, V., see Bagliesi, G. A286 (1989) 61
Chiarelli, G., see Bertolucci, S. A289 (1990) 375
Chiba, J., see Akei, M. A283 (1989) 46
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Chiba, Y., see Kitagaki, T. A281 (1989) 81
Chichura, L., see Chi, C.Y. A281 (1989) 448
Chidzik, S., see Adeva, B. A289 (1990) 35
Chiefari, G., see Adeva, B. A289 (1990) 35
Chiefari, G., see Adeva, B. A289 (1990) 335
Chiefari, G., see Adeva, B. A290 (1990) 115
Chien, C.Y., see Chi, C.Y. A281 (1989) 448
Chien, C.Y., see Adeva, B. A289 (1990) 35
Chikawa, M., see Kodama, K. A289 (1990) 146
Chikov, N., see Sueva, D. A288 (1990) 460
Chilingarian, A.A. and S.Kh. Harutunyan, On the possibility of a multidimensional kinematic information analysis by means of nearest-neighbour estimations of dimensionality A281 (1989) 388
Chilingarov, A.G., see Aulchenko, V.M. A283 (1989) 528
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Christo, S., see Yegneswaran, A. . . . A290 (1990) 61
Christophel, E., see Van Apeldoorn, G. . . . A283 (1989) 767
Christy, J.C., see Agnetta, G. . . . A281 (1989) 197
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Chu, Y.Y., see E-802 Collaboration . . . A290 (1990) 41
Chumakov, M., see L3 Collaboration . . . A285 (1989) 403
Chumakov, M., see Adeva, B. . . . A289 (1990) 35
Chung, K.H., see Kodama, K. . . . A289 (1990) 146
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Cirignano, L., see Squillante, M.R. . . . A283 (1989) 323
Cittolin, S., see Bonetti, S. . . . A286 (1989) 135
Civinini, C., see Adeva, B. . . . A289 (1990) 35
Claes, D., see Park, S. . . . A289 (1990) 496
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Clare, R., see Adeva, B. . . . A289 (1990) 35
Clark, A.G., see Ansari, R. . . . A288 (1990) 240
Clarke, P., see Damerell, C.J.S. . . . A288 (1990) 236
Claverie, G., see Azaiez, F. . . . A281 (1989) 133
Clearwater, S., see Auerbach, L. . . . A287 (1990) 378
Clearwater, S.H., see Allaby, J.V. . . . A281 (1989) 291
Clegg, T.B., see Abbott, D.J. . . . A284 (1989) 409
Clement, J.M., see Etkin, A. . . . A283 (1989) 557
Clerc, H.-G., see Blank, B. . . . A286 (1989) 160
Clifft, B.E., see Den Hartog, P.K. . . . A287 (1990) 235
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Coan, T., see Zhou, B. . . . A287 (1990) 439
Coçu, F., see Dei-Cas, R. . . . A285 (1989) 320
Coe, M.J., see Gorrod, M.J. . . . A281 (1989) 156
Coffield, F.E., see Jong, R.A. . . . A285 (1989) 379
Cohen, D., see Dytlewski, N. . . . A288 (1990) 641
Cohler, M., see Garabatos, C. . . . A283 (1989) 553
Cohler, M., see Cherney, M. . . . A283 (1989) 796
Coignet, G., see Adeva, B. . . . A289 (1990) 35
Colas, J., see Bacci, C. . . . A284 (1989) 536
Colas, J., see Aubert, B. . . . A286 (1989) 147
Cole, B.A., see E-802 Collaboration . . . A290 (1990) 41
Colella, N.J., see Luna, H.B. . . . A285 (1989) 349
Coleman, R.N., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Coli, M., see Bacilieri, P. . . . A289 (1990) 610
Colino, N., see Adeva, B. . . . A289 (1990) 35
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Combley, F., see Bagliesi, G. . . . A286 (1989) 61
Commichau, V., see Adeva, B. . . . A289 (1990) 35
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Coninckx, F., see Schönbacher, H. . . . A288 (1990) 612
Conley, J.M., see Bradley, J.G. . . . A283 (1989) 348
Connolly, J.F., see Bateman, J.E. . . . A283 (1989) 436
Connolly, R.C., see Weitkamp, W.G. . . . A287 (1990) 283
Conrath, D., see Hartmann, W. . . . A286 (1989) 1
Conta, C., see Borer, K. . . . A286 (1989) 128
Conte, R., see Bacci, C. . . . A284 (1989) 536
Conti, M., see Bollini, D. . . . A283 (1989) 635
Contin, A., see LAA-LAD Group . . . A289 (1990) 351
Convert, P., see Oed, A. . . . A284 (1989) 223
Conway, J., see Amendolia, S.R. . . . A283 (1989) 573
Conway, J., see Barczewski, T. . . . A289 (1990) 176
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Corcoran, D.T., see Storm, D.W. . . . A287 (1990) 247
Corcoran, M.D., see Etkin, A. . . . A283 (1989) 557
Corcoran, M.D., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Cordelli, M., see Bertolucci, S. . . . A289 (1990) 375
Cords, D., see Abrams, G. . . . A281 (1989) 55
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Corsini, R., see Bonifacio, R. . . . A289 (1990) 1
Cosmo, R., see Henry, P. . . . A287 (1990) 90
Cossairt, J.D., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Costa, E., see Agnetta, G. . . . A281 (1989) 197
Costa, G., see Azaiez, F. . . . A281 (1989) 133
Costales, J.B., see E-802 Collaboration . . . A290 (1990) 41
Costantini, F., see Bosi, F. . . . A283 (1989) 532
Coste, Ph., J. Aubert, J.P. Gilles et C. Lejeune, Automatisation d'une source d'ions de type SIRE . . . A288 (1990) 517
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Cowen, D.F., see Barczewski, T. . . . A289 (1990) 176
Cox, P.T., see UA6 Collaboration . . . A286 (1989) 49
Coyle, P., see Aston, D. . . . A283 (1989) 582
Coyle, P., see Aston, D. . . . A283 (1989) 590
Coyne, D., see Aston, D. . . . A283 (1989) 582
Coyne, D., see Aston, D. . . . A283 (1989) 590
Craig, S.L., see Den Hartog, P.K. . . . A287 (1990) 235
Crançon, J., see AMORPHA Collaboration . . . A281 (1989) 528
Cranfield, R., see Anderson, B.E. . . . A283 (1989) 650
Cravens, T.E., see Szücs, I.T. . . . A290 (1990) 228
Crawford, H.J., see E-802 Collaboration . . . A290 (1990) 41
Crawley, G.M., see Krofcheck, D. . . . A288 (1990) 497
Cregut, O., see Bradaschia, C. . . . A289 (1990) 518
Cremonesi, O., see Alessandrello, A. . . . A289 (1990) 504
Crennell, D.J., see Angelini, C. . . . A281 (1989) 50
Crennell, D.J., see WA84 Collaboration . . . A289 (1990) 342
Crennell, D.J., see WA84 Collaboration . . . A289 (1990) 356
Cresswell, M., see Anderson, B.E. . . . A283 (1989) 650
Crijns, F., see Adeva, B. . . . A289 (1990) 35
Crisler, M., see Bross, A. . . . A286 (1989) 69
Cristofori, P., see Adeva, B. . . . A289 (1990) 35
Crittenden, J., see Alitti, J. . . . A283 (1989) 646
Crittenden, J., see ZEUS Calorimeter Group . . . A289 (1990) 115
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Cui, X.Y., see Adeva, B. . . . A289 (1990) 35
Cumming, J.B., see Beavis, D. . . . A281 (1989) 367
Cumming, J.B., see E-802 Collaboration . . . A290 (1990) 41
Curaudeau, J.M., see Waast, B. . . . A287 (1990) 26
Curtin, M.S., see Bhowmik, A. . . . A281 (1989) 224
Curwen, L.S., see Amery, A. . . . A283 (1989) 502
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Da Silva, C.J., see Iwahara, A. . . . A286 (1989) 370
Dabin, Y., see Ortega, J.M. . . . A285 (1989) 97
Dabrowski, A.J., see Bradley, J.G. . . . A283 (1989) 348
Dacal, A., see Fowler, M.M. . . . A281 (1989) 517
Dael, A., see Ortega, J.M. . . . A285 (1989) 97
Dahme, W., see ASTERIX Collaboration . . . A286 (1989) 76
Dai, T.S., see Adeva, B. . . . A289 (1990) 35
Daigo, M., see Hemmi, Y. . . . A281 (1989) 462
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Danilyan, G.V., see Beda, A.G. . . . A284 (1989) 77
Danly, B.G., see Bekefi, G. . . . A285 (1989) 230
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Daryin, A.V., see Baryshev, V.B. . . . A282 (1989) 570
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Dawson, J., see ZEUS Calorimeter Group . . . A290 (1990) 95
Dayton, R., see Gong, W.G. . . . A287 (1990) 639
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De Boer, W., see Abrams, G. . . . A281 (1989) 55
De Bouard, X., see Adeva, B. . . . A289 (1990) 35
De Brion, J.P., see Dei-Cas, R. . . . A285 (1989) 320
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De Lesquen, A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
De Lima, E.P., see Ribeiro, R.S. . . . A283 (1989) 705
De los Heros, C.P., see Garabatos, C. . . . A283 (1989) 553
De los Heros, C.P., see Cherney, M. . . . A283 (1989) 796
De Ninno, G., see Bagliesi, G. . . . A286 (1989) 61
De Ninno, G., see Anelli, M. . . . A289 (1990) 294
De Palma, M., see Bagliesi, G. . . . A286 (1989) 61
De Pasquale, S., see LAA-LAD Group . . . A289 (1990) 351
De Salvo Souza, L., see Sharp, W.M. . . . A285 (1989) 217
De Salvo Souza, L., see Bonifacio, R. . . . A289 (1990) 1
De Sangro, R., see Allaby, J.V. . . . A281 (1989) 291
De Sangro, R., see Benvenuti, A.C. . . . A284 (1989) 339
De Sangro, R., see SLD-WIC Collaboration . . . A289 (1990) 449
De Sangro, R., see Benvenuti, A.C. . . . A289 (1990) 463
De Sangro, R., see Benvenuti, A. . . . A289 (1990) 577
De Sangro, R., see Benvenuti, A.C. . . . A290 (1990) 353
De Simone, P., see Benvenuti, A.C. . . . A284 (1989) 339

De Simone, P., see SLD-WIC Collaboration . . . A289 (1990) 449
De Simone, P., see Benvenuti, A.C. . . . A289 (1990) 463
De Simone, P., see Benvenuti, A. . . . A289 (1990) 577
De Simone, P., see Benvenuti, A.C. . . . A290 (1990) 353
De Vincenzi, M., see Angelini, C. . . . A281 (1989) 50
De Vincenzi, M., see WA84 Collaboration . . . A289 (1990) 342
De Vincenzi, M., see WA84 Collaboration . . . A289 (1990) 356
De Vries, R., see Okx, W.J.C. . . . A289 (1990) 614
Deacon, D.A.G., see Bamford, D.J. . . . A285 (1989) 23
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Debbe, R., see E-802 Collaboration . . . A290 (1990) 41
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Debertin, K., see Coursey, B.M. . . . A290 (1990) 537
Debrun, J.L., see Blondiaux, G. . . . A287 (1990) 125
Debusschere, I., see Vanstraelen, G. . . . A288 (1990) 48
Debye, B., see Adeva, B. . . . A289 (1990) 35
Declerck, G., see Vanstraelen, G. . . . A288 (1990) 48
Declercq, M., see Krummenacher, F. . . . A288 (1990) 176
Declercq, M., see Campbell, M. . . . A290 (1990) 149
Decowski, P., see Michielsen, A.J. . . . A282 (1989) 121
Decreuse, G., see Adeva, B. . . . A289 (1990) 35
Defontaines, F., see Stichelbaut, F. . . . A283 (1989) 792
Degré, A., see Adeva, B. . . . A289 (1990) 35
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Deighton, M.O., see Rawlings, K.J. . . . A281 (1989) 373
Deis, G.A., see Shay, H.D. . . . A285 (1989) 163
Deis, G.A., see Jong, R.A. . . . A285 (1989) 379
Deiters, K., see Adeva, B. . . . A289 (1990) 35
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Del Fabbro, R., see Bradaschia, C. . . . A289 (1990) 518
Del Guerra, A., see Bollini, D. . . . A283 (1989) 635
Del Moral, R., see Blank, B. . . . A286 (1989) 160
Del Peso, J., see Drews, G. . . . A290 (1990) 335
Del Prete, T., see Bosi, F. . . . A283 (1989) 532
Del Zoppo, A., see Bellia, G. . . . A284 (1989) 399
Delaney, C.F.G., see Henari, F.Z. . . . A288 (1990) 439
Delbar, Th., see Arnould, M. . . . A282 (1989) 99
Delcourt, B., see ASTERIX Collaboration . . . A286 (1989) 76
Delfino, M.C., see Allaby, J.V. . . . A281 (1989) 291
Delhomme, C., see Heugel, J. . . . A287 (1990) 109
Delikaris, D., see Brand, C. . . . A283 (1989) 567
Dell'Acqua, A., see Borer, K. . . . A286 (1989) 128
Dell'Orso, M., see Battaiotto, P. . . . A287 (1990) 431
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Dell'Orso, R., see Benvenuti, A.C. . . . A284 (1989) 339
Dell'Orso, R., see SLD-WIC Collaboration . . . A289 (1990) 449
Dell'Orso, R., see Benvenuti, A.C. . . . A289 (1990) 463
Dell'Orso, R., see Benvenuti, A. . . . A289 (1990) 577
Dell'Orso, R., see Benvenuti, A.C. . . . A290 (1990) 353
DeLotto, B., see Borer, K. . . . A286 (1989) 128
Delpierre, P., see Brand, C. . . . A283 (1989) 567
Dembo, A.T., see Feigin, L.A. . . . A282 (1989) 486
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Demoulins, M., see Burgei, R. . . . A287 (1990) 481
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Dénes, E., see Adeva, B. . . . A289 (1990) 35
Denes, P., see Adeva, B. . . . A289 (1990) 35
Denisov, A.G., see Bamburov, N.S. . . . A289 (1990) 265
Denisov, D., see Butler, J.M. . . . A290 (1990) 122
Denisov, S., see Butler, J.M. . . . A290 (1990) 122
Denni, U., see Anelli, M. . . . A289 (1990) 294
DeNotaristefani, F., see Adeva, B. . . . A289 (1990) 35
D'Erasmo, G., see Pantaleo, A. . . . A286 (1989) 230
Derbenev, Ya.S., see Artamonov, A.S. . . . A284 (1989) 248
Derevshchikov, A.A., see Erin, S.V. . . . A283 (1989) 682
Derevschikov, A.A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Derre, J., see Dejardin, M. . . . A283 (1989) 484
DeSalvo, R., see Katayama, N. . . . A283 (1989) 539
Désesquelles, P., see AMORPHA Collaboration . . . A281 (1989) 528
Deslattes, R.D., see Dewey, M.S. . . . A284 (1989) 151
Deslattes, R.D., see Arif, M. . . . A284 (1989) 216
Destaebler, H.C., see Abrams, G. . . . A281 (1989) 55
Destler, W.W., see Booske, J.H. . . . A285 (1989) 92
D'Ettorre Piazzoli, B., see Antonelli, A. . . . A281 (1989) 589
D'Ettorre Piazzoli, B., see Anelli, M. . . . A289 (1990) 294
D'Ettorre-Piazzoli, B., see Bagliesi, G. . . . A286 (1989) 61
Deutschmann, M., see Adeva, B. . . . A289 (1990) 35
Devenish, R.C., see ZEUS-UK Collaboration . . . A283 (1989) 477
Devlin, T., see Carroll, J.T. . . . A289 (1990) 606
Devore, J.R., see Kobisk, E.H. . . . A282 (1989) 329
Devyatov, V.G., S.V. Koshcheev, A.E. Cherkashin, E.S. Gluskin, A.V. Dudnikov, V.G. Dudnikov, A.K. Sood, V.S. Sahnie and G. Ventkataraman, Resonant photoemission from the surface of a high-temperature Y–Ba–Cu–O superconductor . . . A282 (1989) 688
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Dewey, M.S., see Arif, M. . . . A284 (1989) 216
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DeWolf, R.S., see Alitti, J. . . . A283 (1989) 646
Dewynck, J., see Briand, J.P. . . . A285 (1989) 547
Dhez, P., Multilayered mirrors for high-brightness X-ray sources . . . A282 (1989) 519
Dhina, M., see Adeva, B. . . . A289 (1990) 35
D'Hondt, P., see Angelone, M. . . . A286 (1989) 301
Di Domenico, A., see Bacci, C. . . . A286 (1989) 295
Di Fiore, L., see Bradaschia, C. . . . A289 (1990) 518
Di Pirro, G., see Bacilieri, P. . . . A289 (1990) 610
Di Raffaele, R., see Agnetta, G. . . . A281 (1989) 197
Di Tore, G., see Angelis, A.L.S. . . . A283 (1989) 762
Di Virgilio, A., see Bradaschia, C. . . . A289 (1990) 518
Di Vita, G., see WA84 Collaboration . . . A289 (1990) 342
Di Vita, G., see WA84 Collaboration . . . A289 (1990) 356
Diaczek, A., see Brand, C. . . . A283 (1989) 567
Diaferia, R., see Park, S. . . . A289 (1990) 496
Diallo, O., G. Mouze, P. Bechlitch, J.F. Comanducci, P. Abela and C. Ythier, A new method for the detection and visualization of nuclear levels . . . A286 (1989) 379
Dian, R., see Siffert, P. . . . A283 (1989) 363
DiCecca, S., see Chen, S.C. . . . A285 (1989) 290
Dick, L., see UA6 Collaboration . . . A286 (1989) 49
Dickens, J.K. and J.W. McConnell, NE110 scintillator response to 10–100 MeV carbon ions . . . A281 (1989) 577
Didierjean, B., see Adeva, B. . . . A289 (1990) 35
Diebold, G.E., see Garabatos, C. . . . A283 (1989) 553

Diebold, G.E., see Cherney, M. . . . A283 (1989) 796
Dieckmann, A., see Fischer, H.M. . . . A283 (1989) 492
Diekmann, B., see Baake, M. . . . A281 (1989) 325
Diemoz, M., see Adeva, B. . . . A289 (1990) 35
Diep, V., see Peskov, V. . . . A283 (1989) 786
Dierks, K., see ZEUS Calorimeter Group . . . A289 (1990) 115
Dieterle, B., see Auerbach, L. . . . A287 (1990) 378
Dietl, L. and U. Trinks, The surface resistance of a superconducting lead–tin alloy . . . A284 (1989) 293
Dietrich, M., see Adeva, B. . . . A289 (1990) 35
Dignus, H., see Rosenzweig, J. . . . A283 (1989) 255
Dijksman, A., see Białkowski, J. . . . A287 (1990) 532
Dijkstra, H., R. Horisberger, L. Hubbeling, B.D. Hyams, G. Maelhum, A. Peisert, P. Weilhammer, P. Jalocha, P. Kapusta, M. Turala, A. Zalewska, E. Sundell, T. Tuuva, M. Laakso, M. Caccia, W. Kucewicz, C. Meroni, N. Redaelli, A. Stocchi, C. Troncon, R. Turchetta, G. Vegni, M. Mazzuccato, M. Pegoraro, P. Allport, G. Kalmus, P. Seller, M. Tyndel and A. Smith, Status of the DELPHI vertex detector: alignment methods and geometrical resolution . . . A289 (1990) 400
Dimitrov, H.A., see Adeva, B. . . . A289 (1990) 35
Dinsdale, M., see Bagliesi, G. . . . A286 (1989) 61
Dionisi, C., see Adeva, B. . . . A289 (1990) 35
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Dirienzo, A., see Bekefi, G. . . . A285 (1989) 230
Dirienzo, A.C., see Kirkpatrick, D.A. . . . A285 (1989) 43
Disco, A., see Beringer, R. . . . A290 (1990) 370
Dittmayer, J., see Hamann, N. . . . A281 (1989) 379
Dittus, F., see Adeva, B. . . . A289 (1990) 35
Djalali, C., see Krofcheck, D. . . . A288 (1990) 497
Dmitrienko, V.E., see Belyakov, V.A. . . . A282 (1989) 526
Dmitriev, G.D. and I.B. Frumkin, Distribution of ion space charge in the volume of a multiwire proportional chamber at high counting rates . . . A290 (1990) 409
Dmitriev, M.V., see Alexandrov, Yu.M. . . . A282 (1989) 716
Dobrescu, S., see Marinescu, L. . . . A287 (1990) 127
Dobrzynski, L., see Aubert, B. . . . A286 (1989) 147
Dodd, A., see Drexlin, G. . . . A289 (1990) 490
Dodd, A.C., see Allen, R.C. . . . A284 (1989) 347
Dodd, J.W., see Bhattacharjee, A. . . . A285 (1989) 158
Dodonova, N.J., see Belskiy, A.N. . . . A282 (1989) 610
Doets, M., see Lefevere, Y. . . . A290 (1990) 34
Dohmen, M., see Adeva, B. . . . A289 (1990) 35
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Doke, T., see Nakamura, S. . . . A286 (1989) 323
Doke, T., see Ichinose, H. . . . A286 (1989) 327
Doke, T., see Liu, W.P. . . . A287 (1990) 476
Doke, T., see Kashiwagi, T. . . . A290 (1990) 579
Dolfini, R., see Benetti, P. . . . A281 (1989) 397
Dolin, R., see Adeva, B. . . . A289 (1990) 35
Dolin, R.C., see Patt, B.E. . . . A283 (1989) 215
Doll, P., G. Fink, M. Haupenthal, R.W. Finlay, S. Hauber, H.O. Klages, H. Schieler, F. Smend and G.-D. Wicke, Pulse shape discrimination with a large NaI crystal . . . A285 (1989) 464
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Dom, C., see Arnould, M. . . . A282 (1989) 99
Dombeck, T., see Auerbach, L. . . . A287 (1990) 378
Dombsky, M., see D'Auria, J.M. . . . A288 (1990) 354
Domingues, J.P.P., see Correia, C.M.B.A. . . . A289 (1990) 243
Dominik, W., see Charpak, G. . . . A283 (1989) 596
Dominik, W., see Fonte, P. . . . A283 (1989) 658
Dominik, W., see Vasileiadis, G. . . . A289 (1990) 618
Dominik, W., see Astier, P. . . . A289 (1990) 626

Domogala, G., see Eule, R.P. . . . A282 (1989) 281
Donahue, J.B., see Allen, R.C. . . . A284 (1989) 347
Donahue, J.F., see Adeva, B. . . . A289 (1990) 35
Donat, A., see Adeva, B. . . . A289 (1990) 35
Doorn, S., see Urbanus, W.H. . . . A281 (1989) 28
Dorenbos, P., see Schotanus, P. . . . A281 (1989) 162
Dorenbos, P., see Schotanus, P. . . . A284 (1989) 531
Dorfan, D.E., see Abrams, G. . . . A281 (1989) 55
Dorfan, J.M., see Abrams, G. . . . A281 (1989) 55
Dorikens, M., see Paridaens, J. . . . A287 (1990) 359
Dorikens-Vanpraet, L., see Paridaens, J. . . . A287 (1990) 359
Doser, M., see ASTERIX Collaboration . . . A286 (1989) 76
Douglas, J.G., see Trainor, T.A. . . . A287 (1990) 184
Dover, C.B., A. Gal and J.M. Richard, Neutron–antineutron oscillations in nuclei . . . A284 (1989) 13
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Dracos, M., see Van Apeldoorn, G. . . . A283 (1989) 767
Drago, E., see Adeva, B. . . . A289 (1990) 35
Drago, E., see Adeva, B. . . . A289 (1990) 335
Drago, E., see Adeva, B. . . . A290 (1990) 115
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Drain, D., see Benrachi, F. . . . A281 (1989) 137
Drain, D., see AMORPHA Collaboration . . . A281 (1989) 528
Drake, D.M., see Feldman, W.C. . . . A287 (1990) 595
Drapchinsky, L.V., Fission foil characteristics . . . A282 (1989) 308
Drees, J., see Kalkanis, G. . . . A283 (1989) 37
Dreger, K.H., see Adeva, B. . . . A289 (1990) 35
Dreier, P., High resistivity silicon for detector applications . . . A288 (1990) 272
Drell, P.S., see Abrams, G. . . . A281 (1989) 55
Drell, P.S., see Alexander, J.P. . . . A283 (1989) 519
Drell, P.S., see Katayama, N. . . . A283 (1989) 539
Drevermann, H., see Aderholz, M. . . . A284 (1989) 311
Drewer, D., see Adolphsen, C. . . . A288 (1990) 257
Drewer, D.C., see Abrams, G. . . . A281 (1989) 55
Drews, G., see ZEUS Calorimeter Group . . . A289 (1990) 115
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Drexlin, G., V. Eberhard, H. Gemmeke, G. Giorginis, W. Grandegger, R. Gumbsheimer, H. Hucker, L. Husson, J. Kleinfeller, R. Maschuw, P. Plischke, G. Spohrer, F.K. Schmidt, J. Wochele, S. Wölfle, B. Zeitnitz, B. Bodman, F. Burtak, E. Finckh, A. Glombik, W. Kretschmer, F. Schilling, D. Vötisch, J.A. Edgington, T. Gorringe, A. Malik, N.E. Booth, A. Dodd and A.G.D. Payne, The high resolution neutrino calorimeter KARMEN . . . A289 (1990) 490
Driever, T., see Adeva, B. . . . A289 (1990) 35
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Dromby, G., see Adeva, B. . . . A289 (1990) 35
Drosg, M., see Chiba, S. . . . A281 (1989) 581
Drube, W., see Manninen, S. . . . A290 (1990) 242
Drukier, A.K., see Turrell, B.G. . . . A289 (1990) 512
Dryburgh, M., see Anderson, B.E. . . . A283 (1989) 650
Duane, A., see Angelini, C. . . . A281 (1989) 50
Duane, A., see WA84 Collaboration . . . A289 (1990) 342

Duane, A., see WA84 Collaboration . . . A289 (1990) 356
Dubbelman, P., see Urbanus, W.H. . . . A281 (1989) 28
Dubbers, D., The dressed neutron–antineutron system . . . A284 (1989) 22
Dubbers, D., see Döhner, J. . . . A284 (1989) 123
Duch, K.D., see ASTERIX Collaboration . . . A286 (1989) 76
Duchazeaubeneix, J.C., see Bonin, B. . . . A288 (1990) 379
Duchazeaubeneix, J.C., see Bonin, B. . . . A288 (1990) 389
Duchemin, B., see Coursol, N. . . . A286 (1989) 589
Duchovni, E., see Beard, C. . . . A286 (1989) 117
Dudnikov, A.V., see Devyatov, V.G. . . . A282 (1989) 688
Dudnikov, V.G., see Devyatov, V.G. . . . A282 (1989) 688
Duek, E., see Beavis, D. . . . A281 (1989) 367
Duek, E., see E-802 Collaboration . . . A290 (1990) 41
Dufey, J.P., see Antinori, F. . . . A288 (1990) 82
Dufour, J.-P., see Blank, B. . . . A286 (1989) 160
Dufour, J.P., see Geissel, H. . . . A282 (1989) 247
Dufour, J.P., see Kobayashi, T. . . . A284 (1989) 381
Dugad, S.R., see Adarkar, H. . . . A284 (1989) 422
Duhm, H.-H., see Finsel, G. . . . A290 (1990) 450
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Duinker, P., see Adeva, B. . . . A289 (1990) 335
Duinker, P., see Adeva, B. . . . A290 (1990) 115
Dukes, E.C., see UA6 Collaboration . . . A286 (1989) 49
Dulinski, W., see Van Apeldoorn, G. . . . A283 (1989) 767
Dumas, D., see Pinfold, J.L. . . . A286 (1989) 345
Dunlea, J.M., see Kodama, K. . . . A289 (1990) 146
Dunwoodie, W., see Aston, D. . . . A283 (1989) 582
Dunwoodie, W., see Aston, D. . . . A283 (1989) 590
Dupont, J., see Alitti, J. . . . A283 (1989) 646
Dupuy, M., see Nicolau, Y.F. . . . A283 (1989) 149
Dupuy, M., see Nicolau, Y.F. . . . A283 (1989) 355
Durán, I., see Alcaraz, J. . . . A284 (1989) 303
Duran, I., see Adeva, B. . . . A289 (1990) 35
Duran, I., see Adeva, B. . . . A289 (1990) 335
Duran, I., see Adeva, B. . . . A290 (1990) 115
Duruisseau, J.P., see Bradaschia, C. . . . A289 (1990) 518
Dyachenko, V.M., see Damdinsuren, C. . . . A288 (1990) 319
Dyer, F., see Alexeff, I. . . . A285 (1989) 228
Dykes, D.M., see Hughes, E.A. . . . A282 (1989) 392
Dytlewski, N., A. Croal, D. Cohen, A. Katsaros, M. Lavin and S. Singh, A monoenergetic neutron beam facility for biological irradiations . . . A288 (1990) 641
Dytlewski, N., see Ensslin, N. . . . A290 (1990) 197

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Eads, A., see Solberg, K. . . . A281 (1989) 283
Earle, E.D., see Coulter, K.P. . . . A288 (1990) 463

Eartly, D., see Butler, J.M. . . . A290 (1990) 122
Ebeling, F., see Chaloupka, H. . . . A285 (1989) 327
Eberhard, V., see Drexlin, G. . . . A289 (1990) 490
Ebihara, K., see Hiramatsu, S. . . . A285 (1989) 83
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Edberg, T., see Nemethy, P. . . . A283 (1989) 578
Edelstein, R.M., see Kodama, K. . . . A289 (1990) 146
Eder, K., M. Gruber, A. Zeilinger, R. Gähler, W. Mampe and W. Drexel, The new very-cold-neutron optics facility at ILL . . . A284 (1989) 171
Edgecock, R., see Bagliesi, G. . . . A286 (1989) 61
Edgington, J., see Bodmann, B. . . . A286 (1989) 214
Edgington, J.A., see Drexlin, G. . . . A289 (1990) 490
Edmunds, D., see Abolins, M. . . . A289 (1990) 543
Edwards, D.N., see Amery, A. . . . A283 (1989) 502
Edwards, K.W., see Michel, E. . . . A283 (1989) 544
Edwards, M., see Bagliesi, G. . . . A286 (1989) 61
Efimov, S.V., see Boldyshev, V.P. . . . A282 (1989) 390
Egikian, D.L., see Karabekov, I.P. . . . A282 (1989) 638
Egikian, D.L., see Karabekov, I.P. . . . A282 (1989) 640
Egikian, D.L., see Karabekov, I.P. . . . A282 (1989) 642
Egikian, D.L., see Karabekov, I.P. . . . A286 (1989) 37
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Egun, P., see Clajus, M. . . . A281 (1989) 17
Egyed, Z., see Nemethy, P. . . . A283 (1989) 578
Eichhorn, F., see Podurets, K.M. . . . A290 (1990) 419
Eichler, R., see Egli, S. . . . A283 (1989) 487
Eide, B., see Alvsvåg, S.J. . . . A290 (1990) 320
Eidman, K., see Alexandrov, Yu.M. . . . A282 (1989) 725
Einsweiler, K., see Alitti, J. . . . A283 (1989) 646
Eiseman, S.E., see Etkin, A. . . . A283 (1989) 557
Ejiri, H., see Akei, M. . . . A283 (1989) 46
Elbek, B., see Furuno, K. . . . A281 (1989) 10
Elcombe, P.A., see Carter, J.R. . . . A286 (1989) 99
Elgin, J.N., Modulational instability in the free electron laser . . . A285 (1989) 144
Elias, D.M., see Armstrong, T.A. . . . A289 (1990) 109
Elias, L.R., see Kimel, I. . . . A285 (1989) 132
Elias, L.R., Electrostatic accelerators for free electron lasers . . . A287 (1990) 79
Elkacimi, M., see Adeva, B. . . . A289 (1990) 35
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Elkonin, B.V., see Ben-Zvi, I. . . . A287 (1990) 93
Elleaume, P., see Couprie, M.E. . . . A282 (1989) 455
Elleaume, P., ESRF insertion devices, design considerations . . . A282 (1989) 477
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Elliott, C.J., see McVey, B.D. . . . A285 (1989) 186
Elliott, S.R., An analytical expression for the extended pulse shape in a proportional counter . . . A290 (1990) 158
Ellis, J., Theory of the neutron electric dipole moment . . . A284 (1989) 33
Ellison, J., see Avset, B.S. . . . A288 (1990) 131
Elmamouni, H., see Adeva, B. . . . A289 (1990) 35
Ely, R.P., see Carithers, W.C. . . . A289 (1990) 388
Emling, H., see Matulewicz, T. . . . A289 (1990) 194
Emma, P., T.H. Fieguth and T. Lohse, Online monitoring of dispersion functions and transfer matrices at the SLC . . . A288 (1990) 313
Endo, S., see Kato, S. . . . A290 (1990) 315
Enge, H., see E-802 Collaboration . . . A290 (1990) 41
Engel, W.G.P., see Ueta, N. . . . A282 (1989) 188
Engelage, J., see E-802 Collaboration . . . A290 (1990) 41
Engelen, J., see ZEUS Calorimeter Group . . . A289 (1990) 115

Engelen, J., see ZEUS Calorimeter Group . . . A290 (1990) 95
Engler, A., see Adeva, B. . . . A289 (1990) 35
English, R.L., see Damerell, C.J.S. . . . A288 (1990) 236
Engster, C., see Alitti, J. . . . A283 (1989) 646
Eno, S., see Fujii, Y. . . . A283 (1989) 665
Enomoto, A., I. Sato, A. Asami, G. Horikoshi and J. Tanaka, Focusing system of the KEK positron generator . A281 (1989) 1
Enomoto, S., see Nitta, Y. . . . A285 (1989) 540
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Entine, G., see Lund, J.C. . . . A283 (1989) 299
Entine, G., see Squillante, M.R. . . . A283 (1989) 323
Entine, G., see Farrell, R. . . . A288 (1990) 137
Enz, C.C., see Krummenacher, F. . . . A288 (1990) 176
Enz, C.C., see Campbell, M. . . . A290 (1990) 149
Epp, V.Ya., see Klepikov, N.P. . . . A282 (1989) 413
Epp, V.Ya., see Nikitin, M.M. . . . A282 (1989) 481
Epperson, J.E., J.M. Carpenter, P. Thiyagarajan and B. Heuser, Measurement of the delayed neutron fraction and correction of small angle scattering data from a pulsed spallation source . . . A289 (1990) 30
Eppling, F.J., see Adeva, B. . . . A289 (1990) 35
Erd, Ch., see Carli, Ch. . . . A283 (1989) 723
Erdman, K.L., see ASTERIX Collaboration . . . A286 (1989) 76
Erdös, G., see Marsden, R.G. . . . A290 (1990) 211
Eriksson, M., see Werin, S. . . . A290 (1990) 589
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Eritsyan, G.N., see Harutunyan, V.V. . . . A282 (1989) 622
Erko, A.I., see Babin, S.V. . . . A282 (1989) 529
Erko, A.I., D.V. Roshchupkin, A.A. Snigirev, A.M. Smolovich, A.Yu. Nikulin and G.V. Vereshchagin, X-ray diffraction on a multilayer structure modulated by surface acoustic waves . . . A282 (1989) 634
Ermakov, O.N., see Abov, Yu.G. . . . A284 (1989) 80
Ermolin, Y., see Lone, S. . . . A288 (1990) 507
Ermolin, Y., see Bock, R.K. . . . A289 (1990) 534
Ermolin, Y. and C. Ljuslin, The use of image processing in tracking . . . A289 (1990) 592
Ermolov, P.F., see Bashindzhagyan, G.L. . . . A288 (1990) 265
Erné, F., see Adeva, B. . . . A289 (1990) 335
Erné, F., see Adeva, B. . . . A290 (1990) 115
Erné, F.C., see Adeva, B. . . . A289 (1990) 35
Erne, I., see Adeva, B. . . . A289 (1990) 35
Ernst, G.J., E.H. Haselhoff, W.J. Witteman, J.I.M. Botman, W. Van Genderen, H.L. Hagedoorn, J.A. Van der Heide and W.J.G.M. Kleeven, Proposal for a race-track microtron with high peak current . . . A285 (1989) 71
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Erozolimskii, B.G., see Vorobiov, A.V. . . . A284 (1989) 127
Erskine, J.L., see Anacker, D.C. . . . A284 (1989) 514
Esquivel, S., see Battaiotto, P. . . . A287 (1990) 431
Esser, H., see Adeva, B. . . . A289 (1990) 35
Estabrooks, P., see Carter, J.R. . . . A286 (1989) 99
Estève, T., see Gaudiot, G. . . . A287 (1990) 37
Etienne, L., see Stichelbaut, F. . . . A283 (1989) 792
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Evans, P.M., see Smith, A.E. . . . A289 (1990) 231
Evans, W.M., see Akrawy, M. . . . A290 (1990) 76

Evensen, L., see Avset, B.S. A288 (1990) 131
Extermann, P., see Adeva, B. A289 (1990) 35
Eykens, R., see Mast, H. A282 (1989) 107
Eykens, R., see Byrne, J. A284 (1989) 116

Faatz, B., see Van Amersfoort, P.W. A285 (1989) 67
Faatz, B., see Best, R.W.B. A285 (1989) 211
Fabbretti, R., M. Fabre, L. Li, P. Razis, P.G. Seiler and O. Prokofiev, Relation between the lateral distribution of UV laser induced ionization in a drift chamber and the shape of the corresponding signal A287 (1990) 413
Fabbretti, R., see Adeva, B. A289 (1990) 35
Fabbretti, R., see Adeva, B. A289 (1990) 335
Fabbretti, R., see Adeva, B. A290 (1990) 115
Faber, G., see Adeva, B. A289 (1990) 35
Fabjan, C.W., see Angelis, A.L.S. A283 (1989) 762
Fabre, J.P., see Angelini, C. A281 (1989) 50
Fabre, J.P., see WA84 Collaboration A289 (1990) 356
Fabre, J.-P., see WA84 Collaboration A289 (1990) 342
Fabre, M., see Fabbretti, R. A287 (1990) 413
Fabre, M., see Adeva, B. A289 (1990) 335
Fabre, M., see Adeva, B. A290 (1990) 115
Facco, A., see Fortuna, G. A287 (1990) 253
Facco, A., see Dainelli, A. A287 (1990) 279
Fadini, D., see Bonifacio, R. A289 (1990) 1
Fagerstrom, J., see Barczewski, T. A289 (1990) 176
Fagot, J., see Ortega, J.M. A285 (1989) 97
Faissler, W.L., see Allaby, J.V. A281 (1989) 291
Falciano, S., see Adeva, B. A289 (1990) 35
Falk, T., see Adeva, B. A289 (1990) 35
Fallou, J.L., see Ortega, J.M. A285 (1989) 97
Fan, S.J., see Adeva, B. A289 (1990) 35
Fan Hongmei, see Huang Yecheng A290 (1990) 293
Fanet, H., see Burgei, R. A287 (1990) 481
Fanet, H., see Bonin, B. A288 (1990) 379
Fanet, H., see Bonin, B. A288 (1990) 389
Fang, H., see Dattoli, G. A285 (1989) 108
Fang, Y., D. Li and D. Xian, BENT – A software for raytracing of X-rays on bent oblique cut crystals A290 (1990) 597
Farago, I., see Astakhov, A.Ya. A283 (1989) 13
Farilla, A., see Bagliesi, G. A286 (1989) 61
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Faure, J.L., see Dejardin, M. A283 (1989) 484
Fauska, H., see Weitkamp, W.G. A287 (1990) 283
Faust, W., see Münzenberg, G. A282 (1989) 28
Favaron, P., see Fortuna, G. A287 (1990) 253
Favaron, P., see Pengo, R. A287 (1990) 309
Favata, F., see Smith, A. A284 (1989) 375
Favre, M., see Adeva, B. A289 (1990) 35
Fawley, W.M., see Sharp, W.M. A285 (1989) 217
Fay, J., see Abrams, G. A281 (1989) 55
Fay, J., see Adeva, B. A289 (1990) 35
Federspiel, A., see Borer, K. A286 (1989) 128
Federspiel, A., see Beuville, E. A288 (1990) 68
Federspiel, A., see Ansari, R. A288 (1990) 240
Fedorenko, A.I., see Alexandrov, Yu.M. A282 (1989) 551
Fedorenko, V.E., see Anashkin, E.V. A283 (1989) 752
Fedorov, V.V., see Alexeev, V.L. A284 (1989) 181
Fedosov, N.I., see Bagrov, V.G. A282 (1989) 402

Fedotov, S.N., see Barashenkov, V.S. . . . A284 (1989) 509
Fedotovich, G.V., see Anashkin, E.V. . . . A283 (1989) 752
Fehér, S., see Adeva, B. . . . A289 (1990) 35
Feher, S., see Adeva, B. . . . A289 (1990) 335
Feher, S., see Adeva, B. . . . A290 (1990) 115
Fehlmann, J., see Adeva, B. . . . A289 (1990) 35
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Feld-Dahme, F., see ASTERIX Collaboration . . . A286 (1989) 76
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Feldman, D.W., see Sollid, J.E. . . . A285 (1989) 147
Feldman, D.W., see Sollid, J.E. . . . A285 (1989) 153
Feldman, D.W., see Lumpkin, A.H. . . . A285 (1989) 343
Feldman, G.J., see Abrams, G. . . . A281 (1989) 55
Feldman, G.J., see Boyarski, A. . . . A283 (1989) 617
Feldman, R.B., see Feldman, D.W. . . . A285 (1989) 11
Feldman, R.B., see Lumpkin, A.H. . . . A285 (1989) 343
Feldman, W.C., G.F. Auchampaugh and D.M. Drake, A technique to measure the neutron lifetime from low-earth orbit . . . A287 (1990) 595
Feldmann, M., see Adeva, B. . . . A289 (1990) 35
Felici, G., see Antonelli, A. . . . A281 (1989) 589
Felici, G., see Bagliesi, G. . . . A286 (1989) 61
Felker, B., see Jong, R.A. . . . A285 (1989) 379
Felsher, P.D., see Howell, C.R. . . . A290 (1990) 424
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Fenker, H., see Adeva, B. . . . A289 (1990) 35
Fent, J., see Schoeneberg, U. . . . A288 (1990) 191
Ferbel, T., see Kewley, D. . . . A290 (1990) 346
Feregrino, M., see Andrade, E. . . . A287 (1990) 135
Fergerson, R.W., see Bonin, B. . . . A288 (1990) 379
Fergerson, R.W., see Bonin, B. . . . A288 (1990) 389
Ferguson, S.W., see Jong, R.A. . . . A285 (1989) 379
Ferguson, T., see Adeva, B. . . . A289 (1990) 35
Fernandes, D., see Abrams, G. . . . A281 (1989) 55
Fernandes, P., R. Parodi, C. Salvo and B. Spataro, The design of TE storage cavities for a rf pulse compressor system . . . A288 (1990) 549
Fernández, C., see Garabatos, C. . . . A283 (1989) 553
Fernández, C., see Cherney, M. . . . A283 (1989) 796
Fernandez, E., see Abrams, G. . . . A281 (1989) 55
Fernández, E., see Allaby, J.V. . . . A281 (1989) 291
Fernandez, M., see Adeva, B. . . . A289 (1990) 35
Fernholz, R.C., see Michel, E. . . . A283 (1989) 544
Ferrari, R., see Borer, K. . . . A286 (1989) 128
Ferrarotto, F. and B. Stella, Low resistivity electrodeless streamer tubes . . . A285 (1989) 426
Ferreira Marques, R., see Ribeiro, R.S. . . . A283 (1989) 705
Ferreira Marques, R., see De Fraga, F.A.F. . . . A283 (1989) 778
Ferrer, A., see Benlloch, J.M. . . . A290 (1990) 327
Ferrer, M.L., see Bacilieri, P. . . . A289 (1990) 610
Ferrero, J.L., C. Roldán, M.L. Aceña and E. García-Toraño, Backscattering and self-absorption corrections in the measurement of alpha-emitters in 2π geometry . . . A286 (1989) 384
Ferro-Luzzi, M., see Bonetti, S. . . . A286 (1989) 135
Ferroni, F., see Adeva, B. . . . A289 (1990) 35
Fesefeldt, H., see Adeva, B. . . . A289 (1990) 35
Feshchenko, A.A., see Chirikov-Zorin, I.E. . . . A285 (1989) 484
Feygelman, V.M., J.K. Walker and J.P. Harmon, Polysiloxane-based scintillators doped with oligophenylenes: effect of color centers on radiation stability . . . A290 (1990) 131

Fidecaro, F., see Amendolia, S.R. . . . A283 (1989) 573
Fidecaro, F., see Barczewski, T. . . . A289 (1990) 176
Fidecaro, F., see Amendolia, S.R. . . . A289 (1990) 569
Fieguth, T.H., see Emma, P. . . . A288 (1990) 313
Field, J., see Adeva, B. . . . A289 (1990) 35
Field, R.C., see Abrams, G. . . . A281 (1989) 55
Fields, D.J., see Fowler, M.M. . . . A281 (1989) 517
Fifield, L.K. and N.A. Orr, The production of isotopic ^{36}S targets by ion implantation into carbon foils . . . A288 (1990) 360
Figarola, J.M., see Adeva, B. . . . A289 (1990) 35
Figueroa, C.F., see Adeva, B. . . . A289 (1990) 35
Filipov, G.A., see Adeva, B. . . . A289 (1990) 35
Finch, E.C., see Henari, F.Z. . . . A288 (1990) 439
Finckh, E., see Bodmann, B. . . . A286 (1989) 214
Finckh, E., see Drexlin, G. . . . A289 (1990) 490
Fineman, B.J., see Dowell, D.H. . . . A286 (1989) 183
Fink, G., see Doll, P. . . . A285 (1989) 464
Finlay, R.W., see Doll, P. . . . A285 (1989) 464
Finn, J., see Booske, J.H. . . . A285 (1989) 92
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Fiore, E.M., see Pantaleo, A. . . . A286 (1989) 230
Fiore, L., see Pantaleo, A. . . . A286 (1989) 230
Fiorini, E., see Alessandrello, A. . . . A289 (1990) 504
Fiorito, R.B., see Lumpkin, A.H. . . . A285 (1989) 343
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Fischer, G., see Neissendorfer, F. . . . A282 (1989) 576
Fischer, H.M., H. Hartmann, M. Hauschild, A. Rollnik, S. Schreiber, B. Wünsch, H. Breuker, R.-D. Heuer, J. Ludwig, W. Mohr, F. Röhner, K. Runge, D. Schaile, O. Schaile, H.E. Stier, Ch. Wahl, P. Bock, A. Dieckmann, J.W. Gary, J. Heintze, P. Igo-Kemenes, P. Lennert, H. Von der Schmitt and A. Wagner, The OPAL jet chamber . . . A283 (1989) 492
Fischer, J., see Debbe, R. . . . A283 (1989) 772
Fischer, P., see Schefer, J. . . . A288 (1990) 477
Fjodorov, V.K., see Zschech, E. . . . A282 (1989) 586
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Flaminio, V., see Angelini, C. . . . A281 (1989) 50
Flaminio, V., see WA84 Collaboration . . . A289 (1990) 342
Flaminio, V., see WA84 Collaboration . . . A289 (1990) 356
Flauger, W., Liquid argon calorimetry at the H1 experiment . . . A289 (1990) 446
Flaugher, B., see Carroll, J.T. . . . A289 (1990) 606
Fletcher, N.R., see Caussyn, D.D. . . . A286 (1989) 348
Fleury, A., see Blank, B. . . . A286 (1989) 160
Flick, F.F., see Gursky, J.C. . . . A282 (1989) 62
Fliflet, A.W., R.B. McCowan, C.A. Sullivan, D.A. Kirkpatrick, S.H. Gold and W.M. Manheimer, Development of high power CARM oscillators . . . A285 (1989) 233
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Flyagin, V.B., see Chirikov-Zorin, I.E. . . . A285 (1989) 484
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Foa', L., see Bagliesi, G. . . . A286 (1989) 61
Focardi, E., see Bertolucci, S. . . . A289 (1990) 375
Foeth, H., see Brand, C. . . . A283 (1989) 567

Foley, K.J., see Etkin, A. . . . A283 (1989) 557
Folger, H., see Münzenberg, G. . . . A282 (1989) 28
Folger, H., see Bokemeyer, H. . . . A282 (1989) 40
Folger, H., W. Hartmann, J. Klemm and W. Thalheimer, Uranium targets sandwiched between carbon layers for use on target wheels and on a wobbler in heavy-ion bombardments . . . A282 (1989) 73
Folger, H., see Trautmann, N. . . . A282 (1989) 102
Folger, H., see Kraft, D. . . . A282 (1989) 199
Folger, H., see Stiebing, K.E. . . . A282 (1989) 206
Foligné, B., see Adeva, B. . . . A289 (1990) 35
Fontaine, A., see Tolentino, H. . . . A289 (1990) 307
Fontaine, R.A., see Jong, R.A. . . . A285 (1989) 379
Fonte, P., A. Breskin, G. Charpak, W. Dominik and F. Sauli, Beam test of an imaging high-density projection chamber . . . A283 (1989) 658
Fontenille, A., see AMORPHA Collaboration . . . A281 (1989) 528
Force, P., see Yegneswaran, A. . . . A290 (1990) 61
Forconi, G., see Adeva, B. . . . A289 (1990) 35
Ford, W., see Bambade, P. . . . A290 (1990) 11
Ford, W.T., see Abrams, G. . . . A281 (1989) 55
Ford, W.T., see Allaby, J.V. . . . A281 (1989) 291
Ford, W.T., see Alexander, J.P. . . . A283 (1989) 519
Fordham, C., see Abrams, G. . . . A281 (1989) 55
Foreman, T., see Adeva, B. . . . A289 (1990) 35
Forino, A., see Antinori, F. . . . A288 (1990) 82
Fornaca, S., see Talmadge, S. . . . A285 (1989) 333
Forster, J.S., see Potvin, L. . . . A281 (1989) 359
Forte, M. and C.M.E. Zeyen, Neutron optical spin–orbit rotation in dynamical diffaction . . . A284 (1989) 147
Fortner, M., see Butler, J.M. . . . A290 (1990) 122
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Forycki, A., see Jerrestam, D. . . . A285 (1989) 469
Foster, B., see ZEUS-UK Collaboration . . . A283 (1989) 477
Fouan, J.P., see Ramstein, G. . . . A287 (1990) 291
Fowler, M.M., T.C. Sangster, M.L. Begemann-Blaich, T. Blaich, J.A. Boissevain, H.C. Britt, Y.D. Chan, A. Dacal, D.J. Fields, Z. Fraenkel, A. Gavron, A. Harmon, B.V. Jacak, R.G. Lanier, P.S. Lysaght, G. Mamane, D.J. Massoletti, M.N. Namboodiri, J. Pouliot, R.G. Stokstad, M.L. Webb and J.B. Wilhelmy, Composite charged particle detectors with logarithmic energy response for large dynamic range energy measurements . A281 (1989) 517
Frabel, P., see Agnetta, G. . . . A281 (1989) 197
Frabetti, P.L., see Aulchenko, V.M. . . . A289 (1990) 468
Frabetti, P.L., see Nava, F. . . . A290 (1990) 457
Fraenkel, Z., see Fowler, M.M. . . . A281 (1989) 517
Fraenkel, Z., see Overbeck, M. . . . A288 (1990) 413
Fraenzke, Th., see Butz, T. . . . A284 (1989) 417
Frahm, R.A., see Weiss, L.A. . . . A281 (1989) 628
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Frank, I.A., see Belskiy, A.N. . . . A282 (1989) 610
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Franklin, G., see Garabatos, C. . . . A283 (1989) 553
Franklin, G., see Cherney, M. . . . A283 (1989) 796
Franks, L., see Burger, A. . . . A283 (1989) 232
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Franzke, B., see Gruber, A. . . . A282 (1989) 87
Franzke, V., see Adeva, B. . . . A289 (1990) 35
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Fraser, G.W., see Barstow, M.A. . . . A286 (1989) 350
Fraser, T.J., see ZEUS-UK Collaboration . . . A283 (1989) 477

Fraser-Mitchell, J. and A.G. Wright, Contribution of photocathode nonuniformity to energy resolution in NaI(Tl) scintillation detectors A288 (1990) 429
Fraternali, M., see Borer, K. A286 (1989) 128
Frederick, E., see Squillante, M.R. A283 (1989) 323
Frederick, E., see Farrell, R. A288 (1990) 137
Frederiksen, S.G., see Kodama, K. A289 (1990) 146
Freedman, S., Search for short-lived axions A284 (1989) 50
Freedman, S.J., see Döhner, J. A284 (1989) 123
Freer, M., see Allcock, S.C. A289 (1990) 213
Frehaut, J., see Dei-Cas, R. A285 (1989) 320
Frei, W., see Adeva, B. A289 (1990) 35
Freiesleben, H., see Eule, R.P. A282 (1989) 281
Freifelder, R., see Matulewicz, T. A289 (1990) 194
French, B.R., see Antinori, F. A288 (1990) 82
Frenkel, A., see Angelini, C. A281 (1989) 50
Frenkel, A., see WA84 Collaboration A289 (1990) 342
Frenkel, A., see WA84 Collaboration A289 (1990) 356
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Freudenreich, K., see Adeva, B. A289 (1990) 35
Freund, H.P., see Kirkpatrick, D.A. A285 (1989) 43
Freund, H.P., see Pershing, D.E. A285 (1989) 56
Freund, H.P., H. Bluem and R.H. Jackson, Nonlinear theory and design of a harmonic ubitron/free electron laser A285 (1989) 169
Freund, P., see Frank, M. A287 (1990) 583
Frey, R., see Abrams, G. A281 (1989) 55
Freyberger, A.P., see Kodama, K. A289 (1990) 146
Friant, A., see Mellet, J. A283 (1989) 199
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Friant, A., C. Saliou, R. Galli and S. Barday, Picosecond GaAs X- and gamma-ray photodetectors A283 (1989) 318
Friebel, H.U., see Maier, H.J. A282 (1989) 128
Friebel, W., see Adeva, B. A289 (1990) 35
Friedman, J.I., see Benvenuti, A.C. A284 (1989) 339
Friedman, J.I., see Benvenuti, A.C. A289 (1990) 463
Friedman, J.I., see Benvenuti, A.C. A290 (1990) 353
Friedrich, A., see Krämer, D. A287 (1990) 268
Friedrich, A., see Steck, M. A287 (1990) 324
Friedrich, L., see Ernst, R. A287 (1990) 337
Fries, E., see Leon-Gits, S. A285 (1989) 513
Frischke, D., see Maier, H.J. A282 (1989) 128
Frisken, B., see ZEUS Calorimeter Group A289 (1990) 115
Frisken, B., see ZEUS Calorimeter Group A290 (1990) 95
Froberger, J.P., see Van Apeldoorn, G. A283 (1989) 767
Frodesen, A.G., see Alvsvåg, S.J. A290 (1990) 320
Fruchtman, A., Gain reduction in FELs due to diffraction losses A285 (1989) 122
Fruchtman, A., see Ben-Zvi, I. A287 (1990) 93
Frumkin, I.B., see Dmitriev, G.D. A290 (1990) 409
Fryar, J., see McCarthy, K.J. A287 (1990) 613
Fuchi, Y., see Kato, S. A287 (1990) 499
Fuchs, D., see Johnson, R.L. A290 (1990) 606
Fudge, A.J., see Lowles, I.M. A286 (1989) 556
Fuess, S., see Benvenuti, A.C. A284 (1989) 339
Fuess, S., see Benvenuti, A.C. A289 (1990) 463
Fuess, S., see Benvenuti, A.C. A290 (1990) 353
Fujii, T., see Kodama, K. A289 (1990) 146
Fujii, Y., K. Abe, S. Eno, D.H. Han, H. Harada, Y. Higashi, Y. Ishi, T. Ishizuka, H. Miyata, K. Ohta, D.R. Perticone, R. Poling, N.M. Shaw, H. Takei, T. Thomas, E.H. Thorndike and H. Yokota, An X-ray detector as a detector for electron identification A283 (1989) 665
Fujino, D., see Abrams, G. A281 (1989) 55
Fujino, D., see Alexander, J.P. A283 (1989) 519

Fujioka, G., see Kodama, K. . . . A289 (1990) 146
Fujita, Y., see Kobayashi, K. . . . A287 (1990) 570
Fujiwara, K., see Kodama, K. . . . A289 (1990) 146
Fukuda, M., see Akei, M. . . . A283 (1989) 46
Fukuda, T., see Akei, M. . . . A283 (1989) 46
Fukushima, H., see Kodama, K. . . . A289 (1990) 146
Fukushima, M., see Bizzarri, R. . . . A283 (1989) 799
Fukushima, M., see Adeva, B. . . . A289 (1990) 35
Fukushima, Y., see Yamashita, T. . . . A283 (1989) 709
Fulgione, W., see Bigongiari, A. . . . A288 (1990) 529
Fuligni, F., see Bradaschia, C. . . . A289 (1990) 518
Fulton, B.R., see Allcock, S.C. . . . A289 (1990) 213
Fulton, R., see Yegneswaran, A. . . . A290 (1990) 61
Fumagalli, G., see Borer, K. . . . A286 (1989) 128
Fumelli, M., F. Jequier and J. Paméla, A new protection system against high voltage vacuum breakdowns A285 (1989) 527
Fung, S.Y., see E-802 Collaboration . . . A290 (1990) 41
Funk, M., see Finsel, G. . . . A290 (1990) 450
Furetta, C., see Bacci, C. . . . A286 (1989) 295
Fürtjes, A., see ZEUS Calorimeter Group . . . A290 (1990) 95
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Furuno, K., see Kitagaki, T. . . . A281 (1989) 81
Fuster, J., see Benlloch, J.M. . . . A290 (1990) 327
Fuzesy, R., see Alexander, J.P. . . . A283 (1989) 519

Gabathuler, E., see Beck, G.A. . . . A283 (1989) 471
Gabathuler, E., see Grässler, H. . . . A283 (1989) 622
Gabioud, B., see UA6 Collaboration . . . A286 (1989) 49
Gabutti, A., see Manfredotti, C. . . . A286 (1989) 238
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Gagliardi, C.A. and A.C. Betker, The $^{3}H(d,n)^{4}He$ reaction: a possible source of intermediate energy neutrons . A284 (1989) 356
Gagliardi, C.A., see Tribble, R.E. . . . A285 (1989) 441
Gähler, R., see Golub, R. . . . A284 (1989) 16
Gähler, R., see Baumann, J. . . . A284 (1989) 130
Gähler, R., see Eder, K. . . . A284 (1989) 171
Gähler, R., see Golub, R. . . . A284 (1989) 188
Gaillard, G., see Bonin, B. . . . A288 (1990) 379
Gaillard, G., see Bonin, B. . . . A288 (1990) 389
Gaillard, G., see Adeva, B. . . . A289 (1990) 35
Gaillard, J.-M., see Alitti, J. . . . A283 (1989) 646
Gaillard, M., see Brand, C. . . . A283 (1989) 567
Gaille, F., see UA6 Collaboration . . . A286 (1989) 49
Gailloud, M., see Adeva, B. . . . A289 (1990) 35
Gaimard, J.-J., see Blank, B. . . . A286 (1989) 160
Gaines, I., see Lankford, A.J. . . . A289 (1990) 597
Gal, A., see Dover, C.B. . . . A284 (1989) 13
Galaktionov, Yu., see L3 Collaboration . . . A285 (1989) 403
Galaktionov, Yu., see L3 Collaboration . . . A288 (1990) 364
Galaktionov, Yu., see Adeva, B. . . . A289 (1990) 35
Galayda, J., see Yu, L.H. . . . A284 (1989) 268
Galeotti, S., see Carithers, W.C. . . . A289 (1990) 388
Galeotti, S., see Amendolia, S.R. . . . A289 (1990) 539
Galindo-Uribarri, A., see Potvin, L. . . . A281 (1989) 359

Gallegos, D., see Gursky, J.C. . . . A282 (1989) 62
Galli, R., see Friant, A. . . . A283 (1989) 318
Gallo, E., see Adeva, B. . . . A289 (1990) 35
Galvagni, S., see Benvenuti, A. . . . A289 (1990) 577
Galvez, J., see LAA-LAD Group . . . A289 (1990) 351
Gan, K.K., see Abrams, G. . . . A281 (1989) 55
Gangnant, P., see Villari, A.C.C. . . . A281 (1989) 240
Ganguli, S.N., see Adeva, B. . . . A289 (1990) 35
Ganguly, A.K., see Kirkpatrick, D.A. . . . A285 (1989) 43
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Garabatos, C., see Cherney, M. . . . A283 (1989) 796
Garcia, M.A., see ZEUS Calorimeter Group . . . A289 (1990) 115
Garcia, M.A., see Drews, G. . . . A290 (1990) 335
García-Toraño, E., see Ferrero, J.L. . . . A286 (1989) 384
Garcia-Toraño, E., see Bortels, G. . . . A286 (1989) 429
Garçon, M., see Beise, E.J. . . . A281 (1989) 559
Garçon, M., see Bonin, B. . . . A288 (1990) 379
Garçon, M., see Bonin, B. . . . A288 (1990) 389
Garelick, D., see Adeva, B. . . . A289 (1990) 35
Garganne, P., see Ortega, J.M. . . . A285 (1989) 97
Garreau, L., see Villari, A.C.C. . . . A281 (1989) 240
Gary, J.W., see Fischer, H.M. . . . A283 (1989) 492
Garzón, J.A., see Garabatos, C. . . . A283 (1989) 553
Garzón, J.A., see Cherney, M. . . . A283 (1989) 796
Gasparini, F., see Bonetti, S. . . . A286 (1989) 135
Gastaldi, U., see ASTERIX Collaboration . . . A286 (1989) 76
Gasteyer, W., see Hartmann, W. . . . A286 (1989) 1
Gatot, W., see Kawada, Y. . . . A286 (1989) 539
Gatti, E., M. Sampietro and P.F. Manfredi, Optimum filters for detector charge measurements in presence of $1/f$ noise . . . A287 (1990) 513
Gatti, E., see Rehak, P. . . . A288 (1990) 168
Gatti, E., see Strüder, L. . . . A288 (1990) 227
Gatti, E., see Rehak, P. . . . A289 (1990) 410
Gatto, C., see Abrams, G. . . . A281 (1989) 55
Gau, S.S., see Adeva, B. . . . A289 (1990) 35
Gau, S.S., see Adeva, B. . . . A289 (1990) 335
Gau, S.S., see Adeva, B. . . . A290 (1990) 115
Gaudaen, J., see Bouclier, R. . . . A283 (1989) 509
Gaudaen, J., see Jibaly, M. . . . A283 (1989) 692
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Gaupp, A., see Aab, V. . . . A285 (1989) 76
Gauthier, A., see Kodama, K. . . . A289 (1990) 146
Gavrilov, G., see Adeva, B. . . . A289 (1990) 35
Gavrilov, N.G., see Anashin, V.V. . . . A282 (1989) 369
Gavrilov, N.G., L.G. Isayeva, G.N. Kulipanov, V.N. Litvinenko, S.F. Mikhailov, V.M. Popik, I.G. Silvestrov, A.S. Sokolov, E.M. Trakhtenberg, N.A. Vinokurov and P.D. Vobly, Electromagnetic undulators for the VEPP-3 optical klystron . . . A282 (1989) 422
Gavrilov, N.G., see Baryshev, V.B. . . . A282 (1989) 570
Gavron, A., see Fowler, M.M. . . . A281 (1989) 517

Gavron, A., R.C. Byrd, W.C. Sailor and Y. Yariv, A neutron detector for use in strong gamma backgrounds . . . A290 (1990) 139
Gawne, S.C., see Amery, A. . . . A283 (1989) 502
Gazzaly, M., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Geara, C., see Amery, A. . . . A283 (1989) 502
Gebauer, J., see Frank, M. . . . A287 (1990) 583
Gebert, F., see Baake, M. . . . A281 (1989) 325
Gebhard, M.W., see Heinz, R.M. . . . A281 (1989) 213
Geddes, N.I., see Akrawy, M. . . . A290 (1990) 76
Gee, C.N.P., see Akrawy, M. . . . A290 (1990) 76
Geer, S., R.A. Holroyd and F. Ptohos, Field dependent free ion yields of room temperature tetramethyl liquids and their mixtures . . . A287 (1990) 447
Gehrke, R.J., see Coursey, B.M. . . . A290 (1990) 537
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Geissel, H., see Blank, B. . . . A286 (1989) 160
Geissler, K.K., see Aderholz, M. . . . A284 (1989) 311
Geist, W.M., see Garabatos, C. . . . A283 (1989) 553
Geist, W.M., see Cherney, M. . . . A283 (1989) 796
Gelbke, C.K., see Gong, W.G. . . . A287 (1990) 639
Gelchinskii, B.R., see Ancharov, A.I. . . . A282 (1989) 644
Geltenbort, P., see Beda, A.G. . . . A284 (1989) 77
Gemmeke, H., see Bodmann, B. . . . A286 (1989) 214
Gemmeke, H., see Drexlin, G. . . . A289 (1990) 490
Genat, J.F., see Amery, A. . . . A283 (1989) 502
Genka, T. and S. Iwamoto, Effect of atmospheric pressure variations on thermal power measurements with radiometric microcalorimeters . . . A286 (1989) 395
Gennari, E., see Adeva, B. . . . A289 (1990) 35
Genoni, M., see Benetti, P. . . . A281 (1989) 397
Gensch, U., see Bärwolff, H. . . . A283 (1989) 467
Gentile, S., see Bizzarri, R. . . . A283 (1989) 799
Gentile, S., see Adeva, B. . . . A289 (1990) 35
Gentry, G.L., see Caussyn, D.D. . . . A286 (1989) 348
Genz, H., see Aab, V. . . . A285 (1989) 76
Georgeson, G., see Schieber, M. . . . A283 (1989) 172
Georgeson, G. and F. Milstein, Theoretical study of the dislocation structure in HgI_2 . . . A285 (1989) 488
Georgeson, G., see Milstein, F. . . . A285 (1989) 500
Georgeson, G. and F. Milstein, Correlation between plastic deformation parameters and radiation detector quality in HgI_2 . . . A285 (1989) 507
Georgi, M., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Geraldo, L.P. and D.L. Smith, Covariance analysis and fitting of germanium gamma-ray detector efficiency calibration data . . . A290 (1990) 499
Gerardi, G., see Agnetta, G. . . . A281 (1989) 197
Gerasimov, V.S., see Gadzhiev, A.M. . . . A282 (1989) 502
Gerasimov, V.S., see Gadzhiev, A.M. . . . A282 (1989) 728
Geretschläger, M., see Golser, R. . . . A282 (1989) 185
Gero, E., see Abrams, G. . . . A281 (1989) 55
Gerrish, V.M. and A.G. Beyerle, Pulse filtering techniques for mercuric iodide gamma ray detectors . . . A283 (1989) 220
Gertner, I., see Markevich, N. . . . A283 (1989) 72
Gervino, G., see Zucchiatti, A. . . . A281 (1989) 341
Gervino, G., see Manfredotti, C. . . . A286 (1989) 238
Gessinger, H.J., see Hartmann, W. . . . A286 (1989) 1
Gettner, M., see Adeva, B. . . . A289 (1990) 35
Gettner, M., see Adeva, B. . . . A289 (1990) 335
Gettner, M., see Adeva, B. . . . A290 (1990) 115
Gettner, M.W., see Allaby, J.V. . . . A281 (1989) 291
Gevorkyan, V.A., see Harutunyan, V.V. . . . A282 (1989) 622
Geyer, C., see Steck, M. . . . A287 (1990) 324
Geyer, Ch., see Krämer, D. . . . A287 (1990) 268
Ghez, Ph., see Aubert, B. . . . A286 (1989) 147
Ghiselli, A., see Bacilieri, P. . . . A289 (1990) 610
Giacomelli, P., see UA6 Collaboration . . . A286 (1989) 49

Gianetti, P., see Battaiotto, P. . . . A287 (1990) 431
Giannessi, L., see Dattoli, G. . . . A285 (1989) 108
Giassi, A., see Bagliesi, G. . . . A286 (1989) 61
Giazotto, A., see Bradaschia, C. . . . A289 (1990) 518
Gibaut, D.B., see Kodama, K. . . . A289 (1990) 146
Gibb, J.V., see Aderholz, M. . . . A284 (1989) 311
Gibson, J.R., see Aaron, W.S. . . . A282 (1989) 147
Gibson, M.D., see ZEUS-UK Collaboration . . . A283 (1989) 477
Gibson, W.R., see Akrawy, M. . . . A290 (1990) 76
Gidal, G., see Abrams, G. . . . A281 (1989) 55
Giesen, U., see Lamm, L.O. . . . A281 (1989) 143
Gilad, S., see Beise, E.J. . . . A281 (1989) 559
Gildemeister, O., see Ansari, R. . . . A288 (1990) 240
Gilkinson, D., see ZEUS Calorimeter Group . . . A290 (1990) 95
Gilles, J.P., see Coste, Ph. . . . A288 (1990) 517
Gillette, V.H., see Mayer, R.E. . . . A288 (1990) 467
Gilliam, D.M., see Byrne, J. . . . A284 (1989) 116
Gilliam, D.M., G.L. Greene and G.P. Lamaze, Absolute neutron counting based on B-10 alpha–gamma coincidence methods . . . A284 (1989) 220
Gillibert, A., see Villari, A.C.C. . . . A281 (1989) 240
Gillman, A.R., see Damerell, C.J.S. . . . A288 (1990) 236
Gilmore, R.S., see ZEUS-UK Collaboration . . . A283 (1989) 477
Gilot, J-F., see Rusi El Hassani, A.J. . . . A290 (1990) 109
Gilot, J.F., see Yegneswaran, A. . . . A290 (1990) 61
Gingrich, D., see ZEUS-UK Collaboration . . . A283 (1989) 477
Giokaris, N., see Bertolucci, S. . . . A289 (1990) 375
Giomataris, Y., see Charpak, G. . . . A283 (1989) 596
Giordano, G., see Thorn, C.E. . . . A285 (1989) 447
Giorgetti, C., see Bonin, B. . . . A288 (1990) 379
Giorgetti, C., see Bonin, B. . . . A288 (1990) 389
Giorginis, G., see Drexlin, G. . . . A289 (1990) 490
Giorni, A., see Benrachi, F. . . . A281 (1989) 137
Giorni, A., see AMORPHA Collaboration . . . A281 (1989) 528
Giovagnoli, A., see Blondiaux, G. . . . A287 (1990) 125
Girard, C., see Adeva, B. . . . A289 (1990) 35
Girard, J., see Cauvin, B. . . . A287 (1990) 263
Girard, J., see Ramstein, G. . . . A287 (1990) 291
Girardeau-Montaut, J.P., see Dei-Cas, R. . . . A285 (1989) 320
Giromini, P., see Bertolucci, S. . . . A289 (1990) 375
Gitomer, S.J., see Sollid, J.E. . . . A285 (1989) 147
Gitomer, S.J., see McVey, B.D. . . . A285 (1989) 186
Giuliani, A., see Alessandrello, A. . . . A289 (1990) 426
Giuliani, A., see Alessandrello, A. . . . A289 (1990) 504
Giusti, P., see Bollini, D. . . . A283 (1989) 635
Giusti, P., see LAA-LAD Group . . . A289 (1990) 351
Gladkikh, P.I., see Boldyshev, V.P. . . . A282 (1989) 390
Glagolev, V.V., see Budagov, Yu.A. . . . A284 (1989) 433
Glanzman, T., see Abrams, G. . . . A281 (1989) 55
Glaubman, M., see Adeva, B. . . . A289 (1990) 35
Glebov, V., see Butler, J.M. . . . A290 (1990) 122
Glombik, A., see Bodmann, B. . . . A286 (1989) 214
Glombik, A., see Drexlin, G. . . . A289 (1990) 490
Gluskin, E.S., see Devyatov, V.G. . . . A282 (1989) 688
Gobbi, B., see Park, S. . . . A289 (1990) 496
Gobbo, B., see Amendolia, S.R. . . . A283 (1989) 573
Gobbo, B., see Barczewski, T. . . . A289 (1990) 176
Goderre, G.P., see Allaby, J.V. . . . A281 (1989) 291
Goede, A.P.H., see Kirby, P. . . . A281 (1989) 176
Goerlach, U., see Angelis, A.L.S. . . . A283 (1989) 762
Goggi, G., see Borer, K. . . . A286 (1989) 128
Gohs, U. and D. Seeliger, A tritium safety-system for the intense neutron generator INGE-1 . . . A282 (1989) 341

Goin, G., see Blondiaux, G. . . . A287 (1990) 125
Gokieli, R., see Amery, A. . . . A283 (1989) 502
Gold, S.H., see Fliflet, A.W. . . . A285 (1989) 233
Goldfarb, S., see L3 Collaboration . . . A285 (1989) 403
Goldfarb, S., see Adeva, B. . . . A289 (1990) 35
Goldhaber, G., see Abrams, G. . . . A281 (1989) 55
Goldschmidt-Clermont, Y., see Allaby, J.V. . . . A281 (1989) 291
Goldstein, J.C., see Warren, R.W. . . . A285 (1989) 1
Goldstein, J.C., see Lumpkin, A.H. . . . A285 (1989) 104
Goldstein, J.C., see Moore, G.T. . . . A285 (1989) 176
Goldstein, J.C., see McVey, B.D. . . . A285 (1989) 186
Goldstein, J.C., B.D. McVey, B.E. Carlsten and L.E. Thode, Integrated numerical modeling of free electron laser oscillators . . . A285 (1989) 192
Golovatjuk, V.M., Z. Guzik, S.V. Kashigin, E.A. Khlynov, V.N. Ryzhov, E.N. Tsyganov, I.A. Tyapkin and A.S. Vodopianov, Basic parameters of the UCD microvertex detector . . . A288 (1990) 254
Golovkin, S.V., see Bamburov, N.S. . . . A289 (1990) 265
Golser, R., P. Bauer, M. Geretschläger and D. Semrad, Experiences in the preparation of thin layers for accelerator measurements . . . A282 (1989) 185
Golub, R., H. Yoshiki and R. Gähler, From ultracold antineutrons to neutron spin echo – The bootstrap offers significant gains in sensitivity . . . A284 (1989) 16
Golub, R. and R. Gähler, Neutrons with $\langle \sigma_z \rangle \geqslant 100$ and "polarization amplification" . . . A284 (1989) 188
Golubev, V.N., see Stankevich, V.G. . . . A282 (1989) 684
Gombosi, T.I., see Szücs, I.T. . . . A290 (1990) 228
Gomez Cadenas, J.J., see Abrams, G. . . . A281 (1989) 55
Goncharuk, V.K., see Kulikov, A.P. . . . A282 (1989) 583
Gong, W.G., N. Carlin, C.K. Gelbke and R. Dayton, Quality tests of CsI(Tl) scintillators (*Letter to the Editor*) . A287 (1990) 639
Gong, X., see Abrams, G. . . . A281 (1989) 55
Gong, Z.F., see L3 Collaboration . . . A285 (1989) 403
Gong, Z.F., see Adeva, B. . . . A289 (1990) 35
Gonidec, A., see Bonetti, S. . . . A286 (1989) 135
Gönnewein, F., see Beda, A.G. . . . A284 (1989) 77
Gono, Y., Targets for heavy-ion induced reactions at RIKEN . . . A282 (1989) 36
Gonzales, S., see Benvenuti, A. . . . A289 (1990) 577
Gonzalez, E., see Adeva, B. . . . A289 (1990) 35
Gonzalez, E., see Adeva, B. . . . A289 (1990) 335
Gonzalez, E., see Adeva, B. . . . A290 (1990) 115
Gonzalez, S., see Benvenuti, A.C. . . . A284 (1989) 339
Gonzalez, S., see SLD-WIC Collaboration . . . A289 (1990) 449
Gonzalez, S., see Benvenuti, A.C. . . . A289 (1990) 463
Gonzalez, S., see Benvenuti, A.C. . . . A290 (1990) 353
Goodrick, M.J., see Akrawy, M. . . . A290 (1990) 76
Goodwin, J., see Solberg, K. . . . A281 (1989) 283
Goorens, B., see Stichelbaut, F. . . . A283 (1989) 792
Gorbunova, N.P., see Gadzhiev, A.M. . . . A282 (1989) 502
Gorchakov, V.N., see Dragun, G.N. . . . A282 (1989) 493
Gordeev, A., see L3 Collaboration . . . A285 (1989) 403
Gordeev, A., see Adeva, B. . . . A289 (1990) 35
Gordon, J., see Yegneswaran, A. . . . A290 (1990) 61
Gorin, A.M., see Bamburov, N.S. . . . A289 (1990) 265
Gorini, E., see Bertino, M. . . . A283 (1989) 654
Gorn, W., see Auerbach, L. . . . A287 (1990) 378
Gorniker, E.I., see Anashin, V.V. . . . A282 (1989) 369
Gorniker, E.I., see Anashin, V.V. . . . A282 (1989) 386
Gorodkov, Yu., see L3 Collaboration . . . A285 (1989) 403
Gorodkov, Yu., see Adeva, B. . . . A289 (1990) 35
Görres, J., see Lamm, L.O. . . . A281 (1989) 143
Gorringe, T., see Drexlin, G. . . . A289 (1990) 490
Gorrod, M.J., M.J. Coe and M. Yearworth, Parallel processing of Monte Carlo simulations using a transputer array . . . A281 (1989) 156
Gosset, J., see Burgei, R. . . . A287 (1990) 481
Gosset, L., see Aderholz, M. . . . A284 (1989) 311

Gössling, C., see Beuville, E. . . . A288 (1990) 68
Gössling, C., see Ansari, R. . . . A288 (1990) 240
Gostely, J.-J. and P. Lerch, Counting signals from radioactivity-measurement systems . . . A290 (1990) 521
Goswamy, J., see Chand, B. . . . A284 (1989) 393
Gott, Yu.V., Comparative characteristics of atomic particle analyzers with solid and gaseous targets when used at large fusion facilities . . . A285 (1989) 524
Göttlicher, P., see Adeva, B. . . . A289 (1990) 35
Gottschalk, B., see Allaby, J.V. . . . A281 (1989) 291
Gottschalk, S.C., see Quimby, D.C. . . . A285 (1989) 281
Goudsmit, P.F.A., see Rusi El Hassani, A.J. . . . A290 (1990) 109
Gougas, A., see Charpak, G. . . . A283 (1989) 596
Gougas, A., see Vasileiadis, G. . . . A289 (1990) 618
Goujon, G., see Brand, C. . . . A283 (1989) 567
Goulding, C.A., see Amian, W.B. . . . A281 (1989) 353
Goulding, F.S., see Luke, P.N. . . . A289 (1990) 406
Goulianos, K., see Bertolucci, S. . . . A289 (1990) 375
Gourghoulon, Y., see Bradaschia, C. . . . A289 (1990) 518
Gouz, I., see Bouclier, R. . . . A283 (1989) 509
Gouz, I., see Solomey, N. . . . A283 (1989) 673
Gover, A., see Jerby, E. . . . A285 (1989) 128
Gover, A., see Sheena, Z. . . . A285 (1989) 224
Gover, A., see Sheena, Z. . . . A285 (1989) 239
Gover, A., see Ben-Zvi, I. . . . A287 (1990) 93
Govorun, V.N., see Bamburov, N.S. . . . A289 (1990) 265
Goy, C., see Adeva, B. . . . A289 (1990) 35
Goyot, M., see Adeva, B. . . . A289 (1990) 35
Grab, C., see Adler, J. . . . A283 (1989) 679
Gräf, H.-D., see Aab, V. . . . A285 (1989) 76
Graff, S.M., see Lamm, L.O. . . . A281 (1989) 143
Granada, J.R., see Mayer, R.E. . . . A288 (1990) 467
Granatstein, V.L., see Booske, J.H. . . . A285 (1989) 92
Grancagnolo, F., see Bertino, M. . . . A283 (1989) 654
Grandegger, W., see Drexlin, G. . . . A289 (1990) 490
Grässler, H., S. Masson, H. Nierobisch, W. Pilgram, S. Schulte, W. Struczinski, H. Wenzel, G.A. Beck, J.B. Dainton, E. Gabathuler, P. Mason, S.J. Maxfield, J.M. Morton, G.D. Patel and D.P.C. Sankey, Simultaneous track reconstruction and electron identification in the H1 radial drift chambers . . . A283 (1989) 622
Gratta, G., see Abrams, G. . . . A281 (1989) 55
Gratta, G., see Adolphsen, C. . . . A288 (1990) 257
Gratta, G., see Adeva, B. . . . A289 (1990) 35
Graw, G., see Wessner, H. . . . A286 (1989) 175
Gray, K.E., see Gabutti, A. . . . A289 (1990) 274
Gray, P.W., T.D. MacMahon and M.U. Rajput, Objective data evaluation procedures . . . A286 (1989) 569
Gray, S.W., see Katayama, N. . . . A283 (1989) 539
Green, A., see Abrams, G. . . . A281 (1989) 55
Green, D., see Butler, J.M. . . . A290 (1990) 122
Green, J., see Butler, J.M. . . . A290 (1990) 122
Green, J.P. and G.E. Thomas, Recent developments in the target facilities at Argonne National Laboratory . . . A282 (1989) 191
Green, M., see Bagliesi, G. . . . A286 (1989) 61
Greene, G.L., see Byrne, J. . . . A284 (1989) 116
Greene, G.L., see Dewey, M.S. . . . A284 (1989) 151
Greene, G.L., see Arif, M. . . . A284 (1989) 216
Greene, G.L., see Gilliam, D.M. . . . A284 (1989) 220
Greene, J.P. and G.E. Thomas, Isotopic tellurium targets for heavy-ion nuclear physics produced by vapor deposition . . . A282 (1989) 71
Greeniaus, G., see Bonin, B. . . . A288 (1990) 379
Greeniaus, G., see Bonin, B. . . . A288 (1990) 389
Gregory, N.K., see Schneider, M.B. . . . A290 (1990) 613
Gregory, R.B., see Zhu, Y. . . . A284 (1989) 443
Gregory, R.B. and Y. Zhu, Analysis of positron annihilation lifetime data by numerical Laplace inversion with the program CONTIN . . . A290 (1990) 172
Grein, H., see Matulewicz, T. . . . A289 (1990) 194

Greiner, D.E., see Garabatos, C. . . . A283 (1989) 553
Greiner, D.E., see Cherney, M. . . . A283 (1989) 796
Grieser, M., see Bisoffi, G. . . . A287 (1990) 320
Grieser, M., see Steck, M. . . . A287 (1990) 324
Grigoryan, N.E., see Harutunyan, V.V. . . . A282 (1989) 622
Grigoryev, Yu.N., see Boldyshev, V.P. . . . A282 (1989) 390
Grimes, A., see Adeva, B. . . . A289 (1990) 35
Grimes, S.M., see Saraf, S.K. . . . A288 (1990) 451
Grindhammer, G., M. Rudowicz and S. Peters, The fast simulation of electromagnetic and hadronic showers . . A290 (1990) 469
Gringauz, K.I., see McKenna-Lawlor, S. . . . A290 (1990) 217
Gringauz, K.I., see Szücs, I.T. . . . A290 (1990) 228
Grinnell, C., see Adeva, B. . . . A289 (1990) 35
Grivot, P., see Schreckenbach, K. . . . A284 (1989) 120
Grodzins, L., see E-802 Collaboration . . . A290 (1990) 41
Groeneveld, K.O., see Lorenzen, P. . . . A282 (1989) 213
Groh, J., E. Schenuit and H. Spitzer, Computer simulation of the electron avalanche in cylindrically symmetric electric fields . . . A283 (1989) 730
Groom, D.E., see Allaby, J.V. . . . A281 (1989) 291
Gros, G., see Aderholz, M. . . . A284 (1989) 311
Gros, M., see Brand, C. . . . A283 (1989) 567
Gros, M.H., see Brand, C. . . . A283 (1989) 567
Grosnick, D.P., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Gross, R., see Hebrank, F. . . . A288 (1990) 541
Grosse, E., see Matulewicz, T. . . . A289 (1990) 194
Grosse, G., see Denecke, B. . . . A286 (1989) 474
Grossetete, B., see Amery, A. . . . A283 (1989) 502
Grosse-Wiesmann, P., see Abrams, G. . . . A281 (1989) 55
Grossmann, R., see Maier, H.J. . . . A282 (1989) 128
Gruber, A., W. Bourgeois, B. Franzke, A. Kritzer and C. Treffert, Internal gas-jet target for the ESR at GSI . . . A282 (1989) 87
Gruber, M., see Eder, K. . . . A284 (1989) 171
Grüebler, W., see Clajus, M. . . . A281 (1989) 17
Gruenewald, M., see Adeva, B. . . . A289 (1990) 35
Gruhn, C.R., see Garabatos, C. . . . A283 (1989) 553
Gruhn, C.R., see Cherney, M. . . . A283 (1989) 796
Grung, B., see Alvsvåg, S.J. . . . A290 (1990) 320
Guan, S., see Xu, G. . . . A282 (1989) 161
Guanziroli, M., see Adeva, B. . . . A289 (1990) 35
Guarino, G., see Pantaleo, A. . . . A286 (1989) 230
Guerard, B., see Bouclier, R. . . . A283 (1989) 509
Guerra, S., see Adeva, B. . . . A289 (1990) 35
Guillon, C., see Adeva, B. . . . A289 (1990) 35
Guk, I.S., see Boldyshev, V.P. . . . A282 (1989) 390
Guldbakke, S., see Böttger, R. . . . A282 (1989) 358
Gullickson, R.L., see Meyer, T.W. . . . A285 (1989) 369
Gumbsheimer, R., see Drexlin, G. . . . A289 (1990) 490
Gundy, M.C., see Hanson, G.G. . . . A289 (1990) 365
Gunji, M., see Kitagaki, T. . . . A281 (1989) 81
Günzler, R., see Maisch, T. . . . A288 (1990) 19
Guo Bin, see Huang Yecheng . . . A290 (1990) 293
Gurov, Yu.B., see Barabash, L.S. . . . A288 (1990) 375
Gursky, J.C., H. Baer, F.F. Flick and D. Gallegos, Precision nuclear targets for Drell–Yan cross section measurements at 800 GeV . . . A282 (1989) 62
Gürtler, P., see Pflüger, J. . . . A287 (1990) 628
Gurtu, A., see Adeva, B. . . . A289 (1990) 35
Gurzhiev, A.N., V.I. Kryshkin and L.L. Kurchaninov, Particle identification by low-efficiency "thin" chambers A283 (1989) 628
Güsewell, D., see Adeva, B. . . . A289 (1990) 35
Güsewell, D., see Adeva, B. . . . A289 (1990) 335
Güsewell, D., see Adeva, B. . . . A290 (1990) 115
Gushue, S., see E-802 Collaboration . . . A290 (1990) 41
Gustafson, H.R., see Adeva, B. . . . A289 (1990) 35
Gutknecht, D., Photomask technique for fabricating high purity germanium strip detectors . . . A288 (1990) 13

Guyon, L., see AMORPHA Collaboration A281 (1989) 528
Guyot, C., see Dejardin, M. A283 (1989) 484
Guzhavina, T.I., On the minimization functional in the data processing of EXAFS spectra by fitting and background removal A282 (1989) 664
Guzik, Z., see Golovatjuk, V.M. A288 (1990) 254
Gys, T., see Angelini, C. A281 (1989) 50
Gys, T., see WA84 Collaboration A289 (1990) 342
Gys, T., see WA84 Collaboration A289 (1990) 356

Haan, M., see Adeva, B. A289 (1990) 35
Haas, C.R., see Neff, W. A285 (1989) 253
Haas, F., G. Heng, C. Kempfer and F. Osswald, The Strasbourg MP-10 tandem: an accelerator used actually for nuclear physics experiments and as a test bench for the Vivitron A287 (1990) 18
Haas, F., see Rebmeister, R. A287 (1990) 150
Haas, F., see Nadji, A. A287 (1990) 173
Habault, J., see Bonin, B. A288 (1990) 379
Habault, J., see Bonin, B. A288 (1990) 389
Haber, C., see Carithers, W.C. A289 (1990) 388
Habs, D., see Krämer, D. A287 (1990) 268
Hackenburg, R.W., see Etkin, A. A283 (1989) 557
Haensel, R., The European synchrotron radiation facility A282 (1989) 375
Haensli, M., see Adeva, B. A289 (1990) 35
Haff, K.W., see Kobisk, E.H. A282 (1989) 329
Hafidouni, M., see Garabatos, C. A283 (1989) 553
Hafidouni, M., see Cherney, M. A283 (1989) 796
Hagberg, E., see Potvin, L. A281 (1989) 359
Hage-Ali, M., see Samimi, M. A283 (1989) 243
Hage-Ali, M., see Biglari, B. A283 (1989) 249
Hage-Ali, M., see Siffert, P. A283 (1989) 363
Hagedoorn, H.L., see Ernst, G.J. A285 (1989) 71
Hagemann, K.A., see Furuno, K. A281 (1989) 10
Haggerty, H., see Butler, J.M. A290 (1990) 122
Haggerty, J., see Abrams, G. A281 (1989) 55
Hagopian, V., see Majewski, S. A281 (1989) 500
Haguenauer, M., see Kashiwagi, T. A290 (1990) 579
Hahn, B., see Borer, K. A286 (1989) 128
Hahn, F., S. Haider, W. Klempt, D. Langerveld and E. Rosso, Long electron drift in TMAE-doped gas in the Barrel RICH detector A283 (1989) 686
Haider, S., see Hahn, F. A283 (1989) 686
Hajima, R., see Ohashi, H. A285 (1989) 265
Håkansson, K., see Hellborg, R. A287 (1990) 161
Halbach, K., see Cornacchia, M. A290 (1990) 19
Hale, W., see Anacker, D.C. A284 (1989) 514
Hall, G., see Avset, B.S. A288 (1990) 131
Hall, S.J., see Imrie, D.C. A283 (1989) 515
Haller, C., see Adeva, B. A289 (1990) 35
Haller, M., see Clajus, M. A281 (1989) 17
Hallewell, G., see Aston, D. A283 (1989) 582
Hallewell, G., see Aston, D. A283 (1989) 590
Halley, A., see Amendolia, S.R. A283 (1989) 573
Halley, A., see Barczewski, T. A289 (1990) 176
Hallman, T., see Yegneswaran, A. A290 (1990) 61
Hallman, T.J., see Etkin, A. A283 (1989) 557
Hamacher, T., see Adeva, B. A289 (1990) 35
Hamagaki, H., see E-802 Collaboration A290 (1990) 41
Hämäläinen, K., see Manninen, S. A290 (1990) 242
Hamann, N., G. Braun, J. Dittmayer and H.-J. Urban, A drift chamber readout system in FASTBUS with a high-speed link to CAMAC and a wire count rate monitor A281 (1989) 379
Hamatsu, R., see ZEUS Calorimeter Group A289 (1990) 115
Hamatsu, R., see ZEUS Calorimeter Group A290 (1990) 95

Hamilton, W.A., see Cimmino, A. . . . A284 (1989) 179
Hamm, R., see Ma, H. . . . A281 (1989) 469
Hammarström, R., see Beard, C. . . . A286 (1989) 117
Hammers, H., see Adeva, B. . . . A289 (1990) 35
Han, D.H., see Fujii, Y. . . . A283 (1989) 665
Hanada, H., see Kitagaki, T. . . . A281 (1989) 81
Hancke, S., see Adeva, B. . . . A289 (1990) 35
Hanelt, E., see Geissel, H. . . . A282 (1989) 247
Hanelt, E., see Blank, B. . . . A286 (1989) 160
Hangarter, K., see Adeva, B. . . . A289 (1990) 35
Hanna, D., see Bultena, S. . . . A286 (1989) 317
Hanna, D., see ZEUS Calorimeter Group . . . A289 (1990) 115
Hanna, D., see ZEUS Calorimeter Group . . . A290 (1990) 95
Hansen, K., see Karlsson, U.O. . . . A282 (1989) 553
Hansen, N.J.S., see Furuno, K. . . . A281 (1989) 10
Hansen, O., see E-802 Collaboration . . . A290 (1990) 41
Hansen, S., see Butler, J.M. . . . A290 (1990) 122
Hansen, T-E., see Avset, B.S. . . . A288 (1990) 131
Hansl-Kozanecka, T., see Benvenuti, A.C. . . . A284 (1989) 339
Hansl-Kozanecka, T., see Benvenuti, A.C. . . . A289 (1990) 463
Hansl-Kozanecka, T., see Benvenuti, A.C. . . . A290 (1990) 353
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Hanson, G., see Abrams, G. . . . A281 (1989) 55
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Haouat, G., see Dei-Cas, R. . . . A285 (1989) 320
Hara, K., see Borer, K. . . . A286 (1989) 128
Hara, K., see Ansari, R. . . . A288 (1990) 240
Hara, T., see Kodama, K. . . . A289 (1990) 146
Harada, H., see Fujii, Y. . . . A283 (1989) 665
Harden, R.E., see Den Hartog, P.K. . . . A287 (1990) 235
Harder, U., see Bärwolff, H. . . . A283 (1989) 467
Hargrove, C.K., see Carter, J.R. . . . A286 (1989) 99
Harigel, G., see Aderholz, M. . . . A284 (1989) 311
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Harmon, J.P., see Feygelman, V.M. . . . A290 (1990) 131
Harnew, N., see ZEUS-UK Collaboration . . . A283 (1989) 477
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Harper, G.C., see Trainor, T.A. . . . A287 (1990) 184
Harper, G.C., see Storm, D.W. . . . A287 (1990) 247
Harr, R., see Abrams, G. . . . A281 (1989) 55
Harr, R., see Alexander, J.P. . . . A283 (1989) 519
Harral, B., see Abrams, G. . . . A281 (1989) 55
Harris, F.A., see Abrams, G. . . . A281 (1989) 55
Harris, M., see Adeva, B. . . . A289 (1990) 35
Harrison, K., see Angelini, C. . . . A281 (1989) 50
Harrison, K., see WA84 Collaboration . . . A289 (1990) 342
Harrison, K., see WA84 Collaboration . . . A289 (1990) 356
Hart, J.C., see ZEUS-UK Collaboration . . . A283 (1989) 477
Hart, M., see Cernik, R. . . . A281 (1989) 403
Hartemann, F. and J.M. Buzzi, High efficiency millimeter-wave free electron laser experiments . . . A285 (1989) 53
Harting, D., see Adeva, B. . . . A289 (1990) 35
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Hartjes, F.G., see Adeva, B. . . . A289 (1990) 35
Hartjes, F.G., see Adeva, B. . . . A289 (1990) 335
Hartjes, F.G., see Adeva, B. . . . A290 (1990) 115
Hartmann, H., see Fischer, H.M. . . . A283 (1989) 492
Hartmann, W., see Folger, H. . . . A282 (1989) 73
Hartmann, W., D. Conrath, W. Gasteyer, H.J. Gessinger, W. Heil, H. Kessler, L. Koch, E. Reichert, H.G. Andresen, T. Kettner, B. Wagner, J. Ahrens, J. Jethwa and F.P. Schäfer, A source of polarized electrons based on photoemission of GaAsP . . . A286 (1989) 1
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Harutyunyan, E.H., see Popov, A.N. . . . A282 (1989) 510
Hasebe, N., see Liu, W.P. . . . A287 (1990) 476
Hasegawa, K., see Kitagaki, T. . . . A281 (1989) 81
Hasegawa, K., see Chiba, S. . . . A281 (1989) 581
Hasegawa, K., see Aston, D. . . . A283 (1989) 582
Hasegawa, K., see Aston, D. . . . A283 (1989) 590
Hasegawa, T., see ZEUS Calorimeter Group . . . A289 (1990) 115
Haselhoff, E.H., see Ernst, G.J. . . . A285 (1989) 71
Hasell, D., see ZEUS Calorimeter Group . . . A289 (1990) 115
Hasell, D., see ZEUS Calorimeter Group . . . A290 (1990) 95
Haseroth, H., see Poth, H. . . . A287 (1990) 328
Hashimoto, M., see Koori, N. . . . A281 (1989) 243
Hashimoto, O., see Akei, M. . . . A283 (1989) 46
Hashimoto, S., see Kubota, S. . . . A289 (1990) 253
Hatakeyama, S., see Yamamoto, H. . . . A281 (1989) 128
Hattori, T., see Sugai, I. . . . A282 (1989) 164
Hatzifotiadou, D., see Beard, C. . . . A286 (1989) 117
Hauber, S., see Doll, P. . . . A285 (1989) 464
Hauff, D., see Strüder, L. . . . A288 (1990) 227
Haupenthal, M., see Doll, P. . . . A285 (1989) 464
Hauschild, M., see Fischer, H.M. . . . A283 (1989) 492
Hauss, B.I., see Talmadge, S. . . . A285 (1989) 333
Häusser, O., see Henderson, R.S. . . . A286 (1989) 41
Haustein, P., see E-802 Collaboration . . . A290 (1990) 41
Haustein, P.E., see Beavis, D. . . . A281 (1989) 367
Hautle, P., see Clajus, M. . . . A281 (1989) 17
Hawkes, C., see Bambade, P. . . . A290 (1990) 11
Hawkes, C.M., see Abrams, G. . . . A281 (1989) 55
Hawkes, N.P., see Loughlin, M.J. . . . A281 (1989) 184
Hayano, H., see Kitagaki, T. . . . A281 (1989) 81
Hayashi, S., see E-802 Collaboration . . . A290 (1990) 41
Hayashi, Y., see Adarkar, H. . . . A284 (1989) 422
Hayashino, T., see Kitagaki, T. . . . A281 (1989) 81
Hayes, D., see Anderson, B.E. . . . A283 (1989) 650
Hayes, K., see Abrams, G. . . . A281 (1989) 55
Hayes, K., see Alexander, J.P. . . . A283 (1989) 519
Haynes, D.L., see Jones, C.M. . . . A287 (1990) 68
Haywood, S., see Amendolia, S.R. . . . A283 (1989) 573
Haywood, S., see Barczewski, T. . . . A289 (1990) 176
Hazak, G., see Ben-Zvi, I. . . . A287 (1990) 93
Hazlett, T., see Squillante, M.R. . . . A283 (1989) 323
He, C.F., see Adeva, B. . . . A289 (1990) 35
He, Z.F., see Chen, L.Y. . . . A283 (1989) 43
Hearns, J., see Bagliesi, G. . . . A286 (1989) 61
Hearty, C., see Abrams, G. . . . A281 (1989) 55
Heath, G.P., see ZEUS-UK Collaboration . . . A283 (1989) 477
Heavey, A., see Adeva, B. . . . A289 (1990) 35
Hebbeker, T., see Bizzarri, R. . . . A283 (1989) 799
Hebbeker, T., see Adeva, B. . . . A289 (1990) 35
Hebert, M., see Adeva, B. . . . A289 (1990) 35

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Hedges, S., see Damerell, C.J.S. . . . A288 (1990) 236
Hedin, D., see Butler, J.M. . . . A290 (1990) 122
Heel, M., see ASTERIX Collaboration . . . A286 (1989) 76
Heer, H., see Schefer, J. . . . A288 (1990) 477
Heiden, M., see Garabatos, C. . . . A283 (1989) 553
Heiden, M., see Cherney, M. . . . A283 (1989) 796
Heijne, E.H.M., see Beuville, E. . . . A288 (1990) 68
Heijne, E.H.M., see Antinori, F. . . . A288 (1990) 82
Heijne, E.H.M., see Beuville, E. . . . A288 (1990) 157
Heijne, E.H.M., see Krummenacher, F. . . . A288 (1990) 176
Heijne, E.H.M., see Ansari, R. . . . A288 (1990) 240
Heijne, E.H.M., see Campbell, M. . . . A290 (1990) 149
Heil, W., see Hartmann, W. . . . A286 (1989) 1
Heinloth, K., see Baake, M. . . . A281 (1989) 325
Heinrichs, H., see Chaloupka, H. . . . A285 (1989) 327
Heintze, G., see Pflüger, J. . . . A289 (1990) 300
Heintze, J., see Fischer, H.M. . . . A283 (1989) 492
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Heller, R., see Adeva, B. . . . A289 (1990) 35
Hello, P., see Bradaschia, C. . . . A289 (1990) 518
Helmer, R.L., see Henderson, R.S. . . . A286 (1989) 41
Helmrath, Ch., see Adeva, B. . . . A289 (1990) 35
Heltsley, B.K., see Allaby, J.V. . . . A281 (1989) 291
Hemingway, R., see Carter, J.R. . . . A286 (1989) 99
Hemmi, Y., R. Kikuchi, K. Kubo, H. Kurashige, K. Miyake, M.M. Morii, F. Muranushi, T. Nakamura, A. Okamoto, N. Sasao, N. Tamura, Y. Yamada, M. Daigo and Y. Watase, The VENUS inner drift chamber for a fast z-trigger . . . A281 (1989) 462
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Hendrie, D.L., see Yegneswaran, A. . . . A290 (1990) 61
Hendriksen, B., see Hartjes, F. . . . A289 (1990) 384
Heng, G., see Haas, F. . . . A287 (1990) 18
Heng, G., see Nadji, A. . . . A287 (1990) 173
Henneck, R., see Hinterberger, F. . . . A284 (1989) 523
Henning, W., see Matulewicz, T. . . . A289 (1990) 194
Henrion, J.P.G., see Marsden, R.G. . . . A290 (1990) 211
Henry, P. and R. Cosmo, A new 3.5 MV single stage accelerator for a nuclear microprobe . . . A287 (1990) 90
Henschel, H., see Bärwolff, H. . . . A283 (1989) 467
Herdan, H., see Fretwurst, E. . . . A288 (1990) 1
Hermann, O.W., see Alsmiller Jr, R.G. . . . A286 (1989) 73
Herrmann, G., see Ruster, W. . . . A281 (1989) 547
Herrmann, G., A historical target: ammonium diuranate . . . A282 (1989) 301
Herrmann, G., see Overbeck, M. . . . A288 (1990) 413
Herrmann, J., see Adeva, B. . . . A289 (1990) 35
Herrmann, N., see Matulewicz, T. . . . A289 (1990) 194
Herrup, D., see Abrams, G. . . . A281 (1989) 55
Herscovici, A., see Dei-Cas, R. . . . A285 (1989) 320
Herten, G., see Bizzarri, R. . . . A283 (1989) 799
Herten, G., see Adeva, B. . . . A289 (1990) 35
Herten, U., see Adeva, B. . . . A289 (1990) 35

Hertenberger, R., see Wessner, H. . . . A286 (1989) 175
Hervas, L., see Möschen, J. . . . A288 (1990) 180
Hervas, L., see ZEUS Calorimeter Group . . . A290 (1990) 95
Hervé, A., see Adeva, B. . . . A289 (1990) 35
Herziger, G., see Neff, W. . . . A285 (1989) 253
Hessberger, F.P., see Münzenberg, G. . . . A282 (1989) 28
Hesser, H., see Adeva, B. . . . A289 (1990) 35
Heuer, D., see Benrachi, F. . . . A281 (1989) 137
Heuer, D., see AMORPHA Collaboration . . . A281 (1989) 528
Heuer, R.-D., see Fischer, H.M. . . . A283 (1989) 492
Heugel, J., Ch. Brandt, C. Delhomme, Ch. Krieg, F. Kustner, R. Riehl, Ch. Roth, B. Schlewer and A. Weber, Vacuum distribution in the Vivitron accelerating tube . . . A287 (1990) 109
Heusch, C.A., see Abrams, G. . . . A281 (1989) 55
Heuser, B., see Epperson, J.E. . . . A289 (1990) 30
Heyng, H.W., see Krämer, D. . . . A287 (1990) 268
Hezard, C., see Ortega, J.M. . . . A285 (1989) 97
Hibino, K., see Nishizawa, M. . . . A285 (1989) 532
Hibino, K., see Amenomori, M. . . . A288 (1990) 619
Hiddleston, J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Higashi, S., see Mitsui, K. . . . A290 (1990) 565
Higashi, Y., see Fujii, Y. . . . A283 (1989) 665
Higgins, L., see Talmadge, S. . . . A285 (1989) 333
Higón, E., see Benlloch, J.M. . . . A290 (1990) 327
Higuchi, M., see Kitagaki, T. . . . A281 (1989) 81
Hilgers, G., see Adeva, B. . . . A289 (1990) 35
Hilgers, K., see Adeva, B. . . . A289 (1990) 35
Hilke, H.J., see Brand, C. . . . A283 (1989) 567
Hill, C.E., see Poth, H. . . . A287 (1990) 328
Hill, D.A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Hill, J.C., see Carter, J.R. . . . A286 (1989) 99
Hill, J.C., see Carter, A.A. . . . A286 (1989) 107
Hilscher, D., see AMORPHA Collaboration . . . A281 (1989) 528
Himel, T., see Abrams, G. . . . A281 (1989) 55
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Hino, Y., see Kawada, Y. . . . A286 (1989) 539
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Hinshaw, D.A., see Abrams, G. . . . A281 (1989) 55
Hinshaw, D.A., see Alexander, J.P. . . . A283 (1989) 519
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Hirata, M., see Cho, T. . . . A289 (1990) 317
Hiratate, Y., see Ohba, K. . . . A283 (1989) 265
Hishi, Y., see Kitagaki, T. . . . A281 (1989) 81
Hissong, J., see Beringer, R. . . . A290 (1990) 370
Hlinka, V., see Budagov, Yu.A. . . . A284 (1989) 433
Hoard, C., see Alexander, J.P. . . . A283 (1989) 519
Hobbs, J.S., see Luna, H.B. . . . A285 (1989) 349
Hochman, D., see Beard, C. . . . A286 (1989) 117
Hodgkins, D.J., see Trainor, T.A. . . . A287 (1990) 176
Hodgkins, D.J., see Trainor, T.A. . . . A287 (1990) 184
Hoenk, M., see Abrams, G. . . . A281 (1989) 55
Hofer, H., see Adeva, B. . . . A289 (1990) 35
Hofer, H., see Adeva, B. . . . A289 (1990) 35
Hofer, M., see Adeva, B. . . . A289 (1990) 35
Hofer, T., see Adeva, B. . . . A289 (1990) 35
Hoffman, C.M., see Sadrozinski, H.F.-W. . . . A288 (1990) 76
Hoffmann, F., see Adeva, B. . . . A289 (1990) 35

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Hofmann, S., see Münzenberg, G. A282 (1989) 28
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Hohlweck, M., T. Köble, F. Meyer, M. Ockenfels, J. Weltz and W. Von Witsch, Investigation of collimated fast-neutron beams A281 (1989) 277
Høibråten, S., see Beise, E.J. A281 (1989) 559
Holl, P., see Rehak, P. A288 (1990) 168
Holl, P., see Strüder, L. A288 (1990) 227
Holland, S., see Carithers, W.C. A289 (1990) 388
Hollander, R.W., P. Schotanus and C.W.E. Van Eijk, Recent developments for a BaF_2/TMAE PET-camera A283 (1989) 448
Hollander, R.W., see Duijn, J.H. A283 (1989) 803
Hollander, R.W., see Schotanus, P. A284 (1989) 531
Hollander, R.W., see Schooneveld, E.M. A288 (1990) 250
Hollander, R.W., see Duijn, J.H. A288 (1990) 486
Hollander, R.W., see Duijn, J.H. A288 (1990) 493
Hollos, G., see Berkovits, D. A281 (1989) 663
Holloway, L.E., see Bradaschia, C. A289 (1990) 518
Holm, A., see Jerrestam, D. A285 (1989) 469
Holm, C., see Magerl, A. A290 (1990) 414
Holm, U., see ZEUS Calorimeter Group A289 (1990) 115
Holm, U., see ZEUS Calorimeter Group A290 (1990) 95
Holmes, A.R., see ZEUS-UK Collaboration A283 (1989) 477
Holmgren, S.-O., see Abrams, G. A281 (1989) 55
Holroyd, R.A., see Geer, S. A287 (1990) 447
Holtkamp, D., see Sadrozinski, H.F.-W. A288 (1990) 76
Holtkamp, D.B. and C.R. Quick, A new method of H^- beam-energy and energy-spread diagnostics A287 (1990) 348
Holzer, B., see Krämer, D. A287 (1990) 268
Holzer, B., see Steck, M. A287 (1990) 324
Holzkamp, S., see Baake, M. A281 (1989) 325
Holzmann, R., see Matulewicz, T. A289 (1990) 194
Holzreuter, R., see Egli, S. A283 (1989) 487
Homma, S., see Akei, M. A283 (1989) 46
Homma, S., see E-802 Collaboration A290 (1990) 41
Hong, S.J., see Abrams, G. A281 (1989) 55
Hong Zhongti, see Su Tongling A287 (1990) 452
Hopkins, D.B., see Jong, R.A. A285 (1989) 379
Horikoshi, G., see Enomoto, A. A281 (1989) 1
Horisberger, R., The bipolar silicon microstrip detector: a proposal for a novel precision tracking device A288 (1990) 87
Horisberger, R., see Dijkstra, H. A289 (1990) 400
Horisberger, U., see Adeva, B. A289 (1990) 35
Horn, D., see Potvin, L. A281 (1989) 359
Hornady, R.S., see Luna, H.B. A285 (1989) 349
Horvath, I., see Adeva, B. A289 (1990) 35
Hoshino, K., see Kodama, K. A289 (1990) 146
Hosticka, B., see Möschen, J. A288 (1990) 180
Hosticka, B.J., see Buttler, W. A288 (1990) 187
Hosticka, B.J., see Schoeneberg, U. A288 (1990) 191
Hotta, N., see Nishizawa, M. A285 (1989) 532
Hotta, N., see Amenomori, M. A288 (1990) 619
Hou, W.S., see Hwang, C.S. A288 (1990) 324
Houlden, M.A., see Amery, A. A283 (1989) 502
Howard, B., see ASTERIX Collaboration A286 (1989) 76
Howard, R., see ASTERIX Collaboration A286 (1989) 76
Howden, S., see Krofcheck, D. A288 (1990) 497
Howe, M.A., see Storm, D.W. A287 (1990) 247
Howe, M.A., see Weitkamp, W.G. A287 (1990) 283
Howell, B., D. Koltick and M. Kobayashi, Crimping: a wire fastening technique in wire chamber construction A289 (1990) 185
Howell, C.R., W. Tornow, H.G. Pfützner, A. Li, M.L. Roberts, K. Murphy, P.D. Felsher, G.J. Weisel, A. Naqvi, R.L. Walter, J.M. Lambert, P.A. Treado and I. Šlaus, Techniques for vector analyzing power measurements of the $^2H(\vec{n}, np)n$ breakup reaction at low energies A290 (1990) 424
Hower, N., see Alexander, J.P. A283 (1989) 519

Høy-Christensen, P., see Jerrestam, D. . . . A285 (1989) 469
Hrisoho, A., see Brand, C. . . . A283 (1989) 567
Hsu, L.S., see Adeva, B. . . . A289 (1990) 35
Hu, G.Q., see Adeva, B. . . . A289 (1990) 35
Hu, P., see Carroll, J.T. . . . A289 (1990) 606
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Hubbard, D., see UA6 Collaboration . . . A286 (1989) 49
Hubbeling, L., see Dijkstra, H. . . . A289 (1990) 400
Huber, J., see Aston, D. . . . A283 (1989) 582
Huber, J., see Aston, D. . . . A283 (1989) 590
Hubrec, J., see Garabatos, C. . . . A283 (1989) 553
Hubrec, J., see Cherney, M. . . . A283 (1989) 796
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Hugentobler, E., see Borer, K. . . . A286 (1989) 128
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Hutcheon, D.A., see Bonin, B. . . . A288 (1990) 389
Hutchinson, A.L., see Ripamonti, G. . . . A288 (1990) 99
Hutchinson, D., see Abrams, G. . . . A281 (1989) 55
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Hyrcyk, M., see Carithers, W.C. . . . A289 (1990) 388

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Iafolla, V., see Bradaschia, C. . . . A289 (1990) 518
Iaselli, G., see Bagliesi, G. . . . A286 (1989) 61

Ichinose, H., see Nakamura, S. . . . A286 (1989) 323
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Idskes, N., see Lefevere, Y. . . . A290 (1990) 34
Ientile, P., see De Felice, P. . . . A286 (1989) 514
Igarashi, S., see Butler, J.M. . . . A290 (1990) 122
Ignatov, S.M., see Zelenina, N.K. . . . A283 (1989) 274
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Ikeda, Y., see E-802 Collaboration . . . A290 (1990) 41
Ikezoe, H., see Takeuchi, S. . . . A281 (1989) 426
Ikezoe, H., see Sugiyama, Y. . . . A281 (1989) 512
Ikezoe, H., see Takeuchi, S. . . . A287 (1990) 257
Ille, B., see Adeva, B. . . . A289 (1990) 35
Ilyas, M.M., see Adeva, B. . . . A289 (1990) 35
Imai, K., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Imasaki, K., see Mima, K. . . . A285 (1989) 47
Improta, G., see Adeva, B. . . . A289 (1990) 35
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Innocente, V., see Adeva, B. . . . A289 (1990) 35
Innocente, V., see Adeva, B. . . . A289 (1990) 335
Innocente, V., see Adeva, B. . . . A290 (1990) 115
Innocente, V., see Kashiwagi, T. . . . A290 (1990) 579
Inoue, H., see Matsui, S. . . . A281 (1989) 568
Introzzi, G., see Bertino, M. . . . A283 (1989) 654
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Ioffe, A.I., see Baumann, J. . . . A284 (1989) 130
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Irie, T., see Akei, M. . . . A283 (1989) 46
Irwin, T.J., see Weitkamp, W.G. . . . A287 (1990) 283
Isacson, A., see Schefer, J. . . . A288 (1990) 477
Isayeva, L.G., see Gavrilov, N.G. . . . A282 (1989) 422
Iseki, Y., see Akei, M. . . . A283 (1989) 46
Ishi, Y., see Fujii, Y. . . . A283 (1989) 665
Ishii, K., see Niizeki, T. . . . A287 (1990) 455
Ishii, T., see Takeuchi, S. . . . A281 (1989) 426
Ishii, T., see Takeuchi, S. . . . A287 (1990) 257
Ishizuka, T., see Fujii, Y. . . . A283 (1989) 665
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Isozumi, Y., see Kishimoto, S. . . . A286 (1989) 262
Ito, H., see Ozaki, M. . . . A284 (1989) 286
Ito, N., see Adarkar, H. . . . A284 (1989) 422
Ito, T., see Liu, W.P. . . . A287 (1990) 476

Itoh, M., see Kubota, S. . . . A289 (1990) 253
Ivanov, A.B., see Zanevsky, Yu.V. . . . A283 (1989) 462
Ivanov, D.I., see Alexandrov, B.M. . . . A288 (1990) 399
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Iwanczyk, J.S., see Bradley, J.G. . . . A283 (1989) 348

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Jackson, J.N., see Amery, A. . . . A283 (1989) 502
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Jackson, R.H., see Pershing, D.E. . . . A285 (1989) 56
Jackson, R.H., see Freund, H.P. . . . A285 (1989) 169
Jacobsen, R., see Adolphsen, C. . . . A288 (1990) 257
Jacobsen, R.G., see Abrams, G. . . . A281 (1989) 55
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Jaeschke, E., see Krämer, D. . . . A287 (1990) 268
Jaeschke, E., see Bisoffi, G. . . . A287 (1990) 320
Jaeschke, E., see Steck, M. . . . A287 (1990) 324
Jaffery, T.S., see Kodama, K. . . . A289 (1990) 146
Jaffre, M., see Abrams, G. . . . A281 (1989) 55
Jagel, E., see Adeva, B. . . . A289 (1990) 35
Jahn, A., see Amendolia, S.R. . . . A283 (1989) 573
Jahn, A., see Barczewski, T. . . . A289 (1990) 176
Jaidar, A., see Andrade, E. . . . A287 (1990) 135
Jalocha, P., see Dijkstra, H. . . . A289 (1990) 400
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Janjic, D., see Peskov, V. . . . A283 (1989) 786
Jänsch, H.J., see Reich, H. . . . A288 (1990) 349
Jansen, F.P., see Zijderhand, F. . . . A286 (1989) 490
Jansons, Y.L., see Buzulutskov, A.F. . . . A288 (1990) 659
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Janssen, H., see Siegert, H. . . . A286 (1989) 415
Janssens, R.V.F., see Matulewicz, T. . . . A289 (1990) 194
Jared, R.C., see Barczewski, T. . . . A289 (1990) 176
Jarlskog, G., see Brand, C. . . . A283 (1989) 567

Jaros, J.A., see Abrams, G. . . . A281 (1989) 55
Jaros, J.A., see Alexander, J.P. . . . A283 (1989) 519
Jarron, P., see Beuville, E. . . . A288 (1990) 68
Jarron, P., see Antinori, F. . . . A288 (1990) 82
Jarron, P., see Beuville, E. . . . A288 (1990) 157
Jarron, P., see Krummenacher, F. . . . A288 (1990) 176
Jarron, P., see Ansari, R. . . . A288 (1990) 240
Jarron, P., see Campbell, M. . . . A290 (1990) 149
Jarry, P., see Brand, C. . . . A283 (1989) 567
Jarvis, O.N., see Loughlin, M.J. . . . A281 (1989) 184
Jauho, P., see Taskinen, P. . . . A281 (1989) 539
Jawahery, A., see Katayama, N. . . . A283 (1989) 539
Jean-Marie, B., see Brand, C. . . . A283 (1989) 567
Jeanjean, J., see ASTERIX Collaboration . . . A286 (1989) 76
Jeanneret, J.-B., see UA6 Collaboration . . . A286 (1989) 49
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Jiménez-Domínguez, H., see Flores-Llamas, H. . . . A287 (1990) 557
Jin, B.N., see Adeva, B. . . . A289 (1990) 35
Jin, B.N., see Adeva, B. . . . A289 (1990) 335
Jin, B.N., see Adeva, B. . . . A290 (1990) 115
Jincharadze, D.G., see Chirikov-Zorin, I.E. . . . A285 (1989) 484
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Johnson, J.R., see Benvenuti, A.C. . . . A289 (1990) 463
Johnson, J.R., see Benvenuti, A. . . . A289 (1990) 577
Johnson, J.R., see Benvenuti, A.C. . . . A290 (1990) 353
Johnson, K., see Majewski, S. . . . A281 (1989) 500
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Johnson, R., see Barczewski, T. . . . A289 (1990) 176
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Johnson, W.J., see Lumpkin, A.H. . . . A285 (1989) 104
Johnson, W.J., see Sollid, J.E. . . . A285 (1989) 147
Jokinen, A., see Taskinen, P. . . . A281 (1989) 539
Jolie, J., see Dewey, M.S. . . . A284 (1989) 151
Joly, S., see Dei-Cas, R. . . . A285 (1989) 320
Jonasson, P., see Oed, A. . . . A284 (1989) 223
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Jones, L.W., see L3 Collaboration . . . A285 (1989) 403
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Jones, P.G., see Garabatos, C. . . . A283 (1989) 553
Jones, P.G., see Cherney, M. . . . A283 (1989) 796
Jones, R., see Huomo, H. . . . A284 (1989) 359
Jones, R.W.L., see Carter, J.R. . . . A286 (1989) 99
Jones, S., see Collins, S.P. . . . A290 (1990) 254
Jones, T., see Bagliesi, G. . . . A286 (1989) 61
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Joseph, C., see UA6 Collaboration . . . A286 (1989) 49
Joshi, U., see Carroll, J.T. . . . A289 (1990) 606
Jöstlein, H., see Butler, J.M. . . . A290 (1990) 122
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Juillot, P., see Van Apeldoorn, G. . . . A283 (1989) 767
Jung, C.K., see Abrams, G. . . . A281 (1989) 55
Jung, H., see Adeva, B. . . . A289 (1990) 35
Jung, M., see Krämer, D. . . . A287 (1990) 268
Jung, M., see Steck, M. . . . A287 (1990) 324
Junk, H., see Oed, A. . . . A284 (1989) 223
Juras, R.C., see Jones, C.M. . . . A287 (1990) 68
Juricic, I., see Abrams, G. . . . A281 (1989) 55
Juricic, I., see Beavis, D. . . . A281 (1989) 367
Juricic, I., see E-802 Collaboration . . . A290 (1990) 41

Kaaret, P., see Adeva, B. . . . A289 (1990) 35
Kabasawa, M., see Niizeki, T. . . . A287 (1990) 455
Kabir, P.K., Symmetry tests in slow neutron interactions . . . A284 (1989) 63
Kabsch, Z., see Nicolau, Y.F. . . . A283 (1989) 149
Käck, S., see Brand, C. . . . A283 (1989) 567
Kádár, I., see Végh, J. . . . A281 (1989) 605
Kader, H., see Wessner, H. . . . A286 (1989) 175
Kadyk, J.A., see Abrams, G. . . . A281 (1989) 55
Kaelin, O., see Adeva, B. . . . A289 (1990) 35
Kaestli, W., see Adeva, B. . . . A289 (1990) 35
Kaga, H., see Kitagaki, T. . . . A281 (1989) 81
Kaimachnikov, S.V., see Bamburov, N.S. . . . A289 (1990) 265
Kaiser, H., see Cimmino, A. . . . A284 (1989) 179
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Kajino, F., see Amenomori, M. . . . A288 (1990) 619
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Kalbitzer, S., see Maisch, T. . . . A288 (1990) 19
Kalder, K., see Stankevich, V.G. . . . A282 (1989) 684
Kaldis, E., see Piechotka, M. . . . A283 (1989) 111

Kalelkar, M., see Manly, S. . . . A290 (1990) 393
Kalinkina, N.M., see Pustovarov, V.A. . . . A282 (1989) 595
Kalinowsky, H., see ASTERIX Collaboration . . . A286 (1989) 76
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Kalus, J., see Baumann, J. . . . A284 (1989) 130
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Kamohara, S., see Satoh, K. . . . A287 (1990) 353
Kamyshkov, Yu., see L3 Collaboration . . . A285 (1989) 403
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Kamyshkov, Yu., see Adeva, B. . . . A289 (1990) 35
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Kang, J., see Auerbach, L. . . . A287 (1990) 378
Kang, J.S., see Kodama, K. . . . A289 (1990) 146
Kankanian, S.A., see Avundjian, A.T. . . . A283 (1989) 612
Kapitza, H., see Michel, E. . . . A283 (1989) 544
Kaplan, D., see Adeva, B. . . . A289 (1990) 35
Kaplan, I., see Steinberg, S. . . . A283 (1989) 123
Kapps, E., see Lutz, J.R. . . . A287 (1990) 166
Kapusta, P., see Dijkstra, H. . . . A289 (1990) 400
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Karlen, D., see Carter, J.R. . . . A286 (1989) 99
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Karmalitsyn, N.I., see Konstantinov, A.A. . . . A286 (1989) 369
Karnaukhov, I.M., see Boldyshev, V.P. . . . A282 (1989) 390
Karpenko, V.P., see Zelenina, N.K. . . . A283 (1989) 274
Karpenko, V.P., see Zelenina, N.K. . . . A283 (1989) 279
Karpikhin, I.L., see Abov, Yu.G. . . . A284 (1989) 80
Karpinski, W., see Adeva, B. . . . A289 (1990) 35
Karwowski, H.J., see Abbott, D.J. . . . A284 (1989) 409
Karyotakis, Y., see Adeva, B. . . . A289 (1990) 35
Kasahara, K., see Zhang, C.S. . . . A283 (1989) 78
Kasahara, K., see Nishizawa, M. . . . A285 (1989) 532
Kasahara, K., see Amenomori, M. . . . A288 (1990) 619
Kasahara, K., see Kashiwagi, T. . . . A290 (1990) 579
Kasemann, M., see Amendolia, S.R. . . . A283 (1989) 573
Kasemann, M., see Barczewski, T. . . . A289 (1990) 176
Kashigawi, T., see Liu, W.P. . . . A287 (1990) 476
Kashigin, S.V., see Golovatjuk, V.M. . . . A288 (1990) 254
Kashitani, A., see Akei, M. . . . A283 (1989) 46
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Katayama, J., see Kitagaki, T. . . . A281 (1989) 81

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Katcoff, S., see Beavis, D. A281 (1989) 367
Katcoff, S., see E-802 Collaboration A290 (1990) 41
Kato, H., see Sugai, I. A282 (1989) 164
Kato, S., see Akei, M. A283 (1989) 46
Kato, S., S. Kubono, T. Miyachi, S. Ohkawa, Y. Fuchi, M.H. Tanaka and M. Yasue, A focal-plane counter equipped with a large silicon detector A287 (1990) 499
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Kato, Y., see Mitsui, K. A290 (1990) 565
Katsaros, A., see Dytlewski, N. A288 (1990) 641
Katselis, V., see Naoumidis, A. A289 (1990) 325
Kaufman, S., see E-802 Collaboration A290 (1990) 41
Kaufman, S.B., see Beavis, D. A281 (1989) 367
Kaufmann, H., see Bärwolff, H. A283 (1989) 467
Kaul, I.K., see Bhat, C.L. A281 (1989) 207
Kaul, R.K., see Bhat, C.L. A281 (1989) 207
Kaul, S.K., see Bhat, C.L. A281 (1989) 207
Kautzky, H., see Bradaschia, C. A289 (1990) 518
Kawada, Y., Y. Hino and W. Gatot, Photon emission probabilities of ^{201}Tl A286 (1989) 539
Kawada, Y., see Hino, Y. A286 (1989) 543
Kawahara, H., see Aston, D. A283 (1989) 582
Kawahara, H., see Aston, D. A283 (1989) 590
Kawai, T., M. Utsuro and S. Okamoto, Numerical simulation of self-regulating characteristics of a cold neutron source with a closed-thermosiphon A285 (1989) 520
Kawakami, S., see Adarkar, H. A284 (1989) 422
Kawano, L., see Schramm, D.N. A284 (1989) 84
Kawarasaki, Y., M. Ohkubo, K. Mashiko, M. Sugimoto, M. Sawamura, H. Yoshikawa, M. Takabe and N. Shikazono, A linac for a free electron laser oscillator A285 (1989) 338
Kaye, H.S., see Allaby, J.V. A281 (1989) 291
Kayser, F., see ASTERIX Collaboration A286 (1989) 76
Kazakov, P.N., see Bamburov, N.S. A289 (1990) 265
Kazarian, C., see Baake, M. A281 (1989) 325
Kaznacheev, K.V., see Stankevich, V.G. A282 (1989) 684
Kazuno, M., see Kodama, K. A289 (1990) 146
Keeling, P.R., see Allcock, S.C. A289 (1990) 213
Keller, L., see Burger, A. A283 (1989) 130
Keller, L., see Schieber, M. A283 (1989) 172
Kemmer, J., see Maisch, T. A288 (1990) 19
Kemmer, J., G. Lutz, U. Prechtel, K. Schuster, M. Sterzik, L. Strüder and T. Ziemann, Experimental confirmation of a new semiconductor detector principle A288 (1990) 92
Kemmer, J., see Rehak, P. A288 (1990) 168
Kemmer, J., see Strüder, L. A288 (1990) 227
Kemmer, J., Present and future developments of Si detectors at MBB A288 (1990) 282
Kemmler, J., see Lorenzen, P. A282 (1989) 213
Kempfer, C., see Haas, F. A287 (1990) 18
Kempisty, T., K. Pochwalski, T. Radoszewski and T. Terlikowska-Drozdziel, Measurements of ^{170}Tm photon and electron emission probabilities A286 (1989) 535
Kendall, H.W., see Benvenuti, A.C. A284 (1989) 339
Kendall, H.W., see Benvenuti, A.C. A289 (1990) 463
Kendall, H.W., see Benvenuti, A.C. A290 (1990) 353
Kennedy, B.W., see Anderson, B.E. A283 (1989) 650
Kennett, T.J., see Islam, M.A. A287 (1990) 460
Kent, J., see Abrams, G. A281 (1989) 55
Kenziorra, E., see Strüder, L. A288 (1990) 227
Kephart, R., see Carithers, W.C. A289 (1990) 388
Keppler, E., see McKenna-Lawlor, S. A290 (1990) 217
Kertzer, W., see Adeva, B. A289 (1990) 35
Kessler, H., see Hartmann, W. A286 (1989) 1
Kessler Jr, E.G., see Dewey, M.S. A284 (1989) 151

Kesteman, J., see Stichelbaut, F. . . . A283 (1989) 792
Kettner, T., see Hartmann, W. . . . A286 (1989) 1
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Keyser, R.M. and T.W. Raudorf, Germanium radiation detector manufacturing: process and advances . . . A286 (1989) 357
Keyser, R.M., see Paulus, T.J. . . . A286 (1989) 364
Keyser, R.M., Deconvolution of gamma-ray peak doublets as a function of peak separation and relative amplitude . . . A286 (1989) 403
Keyser, R.M., Using standard spectra to develop and test gamma-ray analysis software . . . A286 (1989) 409
Kezerashvili, G.Ya., see Alexandrov, B.M. . . . A288 (1990) 399
Khabakhpashev, A.G., see Baru, S.E. . . . A283 (1989) 431
Khaidukov, N.M., see Buzulutskov, A.F. . . . A288 (1990) 659
Khandaker, M.A., see Lefevere, Y. . . . A290 (1990) 34
Kharakh, D., see SLD-WIC Collaboration . . . A289 (1990) 449
Kharakh, D., see Benvenuti, A.C. . . . A289 (1990) 463
Kharakh, D., see Benvenuti, A.C. . . . A290 (1990) 353
Kharitonov, A.G., V.V. Nesvizhevsky, A.P. Serebrov, R.R. Taldaev, V.E. Varlamov, A.V. Vasilyev, V.P. Alfimenkov, V.I. Lushchikov, V.N. Shvetsov and A.V. Strelkov, Preliminary results of neutron lifetime measurements with gravitational UCN trap . . . A284 (1989) 98
Khazin, B.I., see Anashkin, E.V. . . . A283 (1989) 752
Kheiker, D.M., see Popov, A.N. . . . A282 (1989) 510
Khlynov, E.A., see Golovatjuk, V.M. . . . A288 (1990) 254
Khoze, V., see Adeva, B. . . . A289 (1990) 35
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Khvostova, V.P., see Kolmogorov, Yu.P. . . . A282 (1989) 692
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Kikuchi, J., see Liu, W.P. . . . A287 (1990) 476
Kikuchi, J., see Kashiwagi, T. . . . A290 (1990) 579
Kikuchi, R., see Hemmi, Y. . . . A281 (1989) 462
Kilian, K., see Sefzick, T. . . . A288 (1990) 571
Kim, C.O., see Kodama, K. . . . A289 (1990) 146
Kim, D.C., see Kodama, K. . . . A289 (1990) 146
Kim, J.Y., see Kodama, K. . . . A289 (1990) 146
Kim, K.Y., see Kodama, K. . . . A289 (1990) 146
Kim, M.H., see Wouters, S.E. . . . A288 (1990) 44
Kim, S.K., see Kodama, K. . . . A289 (1990) 146
Kim, T.Y., see Kodama, K. . . . A289 (1990) 146
Kimel, I. and L.R. Elias, Mode competition in long-pulse FELs . . . A285 (1989) 132
Kimura, K., see Akei, M. . . . A283 (1989) 46
Kimura, K., see E-802 Collaboration . . . A290 (1990) 41
Kimura, Y., see Hiramatsu, S. . . . A285 (1989) 83
King, B.T., see Amery, A. . . . A283 (1989) 502
King, M., see Abrams, G. . . . A281 (1989) 55
King, N.S.P., see Lumpkin, A.H. . . . A285 (1989) 17
Kink, R., see Stankevich, V.G. . . . A282 (1989) 684
Kinnison, W.W., see Sadrozinski, H.F.-W. . . . A288 (1990) 76
Kiraly, P., see Afonin, V.V. . . . A290 (1990) 223
Király, P., see Szücs, I.T. . . . A290 (1990) 228
Kirby, P., A.P.H. Goede and S. Papastergiou, Ion optics calculations for tritium injection into JET . . . A281 (1989) 176
Kirchhoff, G., see Adeva, B. . . . A289 (1990) 35
Kirk, P., see Yegneswaran, A. . . . A290 (1990) 61
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Kirkpatrick, D.A., see Fliflet, A.W. . . . A285 (1989) 233
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Kirsanov, S., see Drabkin, G. . . . A284 (1989) 176
Kirsch, E., see McKenna-Lawlor, S. . . . A290 (1990) 217
Kirsten, F., see Carithers, W.C. . . . A289 (1990) 388
Kiselev, V.A., see Anashin, V.V. . . . A282 (1989) 386

Kishimoto, S. and Y. Isozumi, Gas gain of helium-filled proportional counter at low temperatures (~ 4.2 K) .. A286 (1989) 262
Kishimoto, T., see Akei, M. A283 (1989) 46
Kishiro, J., see Hiramatsu, S. A285 (1989) 83
Kislov, E.V., A.A. Kulikov and A.B. Kulikova, Possibility of successive SRXFA use along with chemical-spectral methods for palladium analysis in geological samples A282 (1989) 667
Kiss, Á.Z., see Bartha, L. A287 (1990) 156
Kistner, O.C., see Thorn, C.E. A285 (1989) 447
Kistner, O.C., see Dowell, D.H. A286 (1989) 183
Kisváradi, A., see Astakhov, A.Ya. A283 (1989) 13
Kitagaki, T., K. Abe, T. Akagi, Y. Chiba, K. Furuno, M. Gunji, H. Hanada, K. Hasegawa, H. Hayano, T. Hayashino, H. Kaga, J. Katayama, H. Kurino, H. Masuda, Y. Morita, S. Nakai, T. Nakajima, K. Numano, H. Sagawa, M. Sasaki, H. Suzuki, T. Takayama, T. Tamae, K. Tamai, S. Tanaka, A. Yamaguchi, T. Yamamura, H. Yuta, M. Higuchi, Y. Hishi and M. Sato, A high resolution holographic freon bubble chamber for the Fermilab high energy neutrino experiment A281 (1989) 81
Kitami, T., see Kato, S. A290 (1990) 315
Kitamura, H., see Kodama, K. A289 (1990) 146
Kitamura, T., see Mitsui, K. A290 (1990) 565
Kitaori, S., see Miyahara, H. A286 (1989) 497
Kitaori, S., see Miyahara, H. A286 (1989) 519
Kittel, W., see Adeva, B. A289 (1990) 35
Kladiva, E., see Budagov, Yu.A. A284 (1989) 433
Klages, H.O., see Doll, P. A285 (1989) 464
Klain, A.G., see Cimmino, A. A284 (1989) 179
Klamra, W., see Białkowski, J. A281 (1989) 657
Klamra, W., see Borsuk, S. A284 (1989) 430
Klanner, R., see ZEUS Calorimeter Group A289 (1990) 115
Klanner, R., see ZEUS Calorimeter Group A290 (1990) 95
Klanner, R., see Drews, G. A290 (1990) 335
Kleev, A.I. and A.V. Tihomirov, Numerical analysis of the open resonator for an FEL A282 (1989) 445
Kleeven, W.J.G.M., see Ernst, G.J. A285 (1989) 71
Klein, A.G., see Kaiser, H. A284 (1989) 190
Klein, H., see Böttger, R. A282 (1989) 358
Klein, H., see Urbanus, W.H. A290 (1990) 1
Klein, H., see Wojke, R.G.C. A288 (1990) 329
Klein, J.W., see Janca, R. A284 (1989) 370
Klein, M., see Bärwolff, H. A283 (1989) 467
Klein, S.R., see Abrams, G. A281 (1989) 55
Klein, U., see Chaloupka, H. A285 (1989) 327
Kleinfelder, S., see Carithers, W.C. A289 (1990) 388
Kleinfeller, J., see Drexlin, G. A289 (1990) 490
Kleinman, H., see Sheena, Z. A285 (1989) 239
Kleinman, H., see Ben-Zvi, I. A287 (1990) 93
Kleinwort, C., see Beard, C. A286 (1989) 117
Klem, D., see Carter, J.R. A286 (1989) 99
Klemm, J., see Folger, H. A282 (1989) 73
Klempt, E., see ASTERIX Collaboration A286 (1989) 76
Klempt, W., see Kalkanis, G. A283 (1989) 37
Klempt, W., see Hahn, F. A283 (1989) 686
Klepikov, N.P., I.M. Ternov and V.Ya. Epp, Coherent radiation of charged particles moving along a closed path A282 (1989) 413
Klimenko, S.G., see Aulchenko, V.M. A289 (1990) 468
Klimentov, A., see L3 Collaboration A285 (1989) 403
Klimentov, A., see Adeva, B. A289 (1990) 35
Klinger, P., see Braatz, U. A283 (1989) 240
Klok, P.F., see Adeva, B. A289 (1990) 35
Klovning, A., see Alvsvåg, S.J. A290 (1990) 320
Kluge, H.-J., see Ruster, W. A281 (1989) 547
Knaebel, R., see Lutz, J.R. A287 (1990) 166
Knapp, B.C., High speed data-driven processing A289 (1990) 561
Knudsen, P., see Furuno, K. A281 (1989) 10
Knudson, A.R., see Harihar, P. A283 (1989) 62
Kobayakawa, K., see Mitsui, K. A290 (1990) 565

Kobayashi, H., see Yamashita, T. . . . A283 (1989) 709
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Kobayashi, M., see Kodama, K. . . . A289 (1990) 146
Kobayashi, M., see Howell, B. . . . A289 (1990) 185
Kobayashi, M., see Anderson, D.F. . . . A290 (1990) 385
Kobayashi, T., see Tanaka, M. . . . A284 (1989) 296
Kobayashi, T., C.E. Tull, D.L. Olson, W.F.J. Müller, J.P. Dufour, J.C. Young, F.S. Bieser and T.J.M. Symons, A detector system for heavy projectile fragments in the few GeV/nucleon energy region . . . A284 (1989) 381
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Köble, T., see Hohlweck, M. . . . A281 (1989) 277
Koch, L., see Hartmann, W. . . . A286 (1989) 1
Koch, M., see Schefer, J. . . . A288 (1990) 477
Kochubey, D.I., see Zamaraev, K.I. . . . A282 (1989) 563
Kodama, K., N. Ushida, R.L. Lander, A. Mokhtarani, V.S. Paolone, J.O. Wilcox, P.M. Yager, R.M. Edelstein, A.P. Freyberger, D.B. Gibaut, R.J. Lipton, W.R. Nichols, D.M. Potter, J.R. Russ, Y. Zhang, H.I. Jang, J.Y. Kim, M.Y. Pac, B.R. Baller, R.J. Stefanski, K. Nakazawa, S. Tasaka, Y.S. Choi, K.H. Chung, D.C. Kim, I.G. Park, J.S. Song, C.S. Yoon, M. Chikawa, T. Abe, T. Fujii, G. Fujioka, K. Fujiwara, H. Fukushima, T. Hara, Y. Takahashi, K. Taruma, Y. Tsuzuki, C. Yokoyama, S.D. Chang, B.G. Cheon, J.H. Cho, J.S. Kang, C.O. Kim, K.Y. Kim, T.Y. Kim, J.C. Lee, S.B. Lee, G.Y. Lim, I.T. Lim, S.W. Nam, T.S. Shin, K.S. Sim, J.K. Woo, Y. Isokane, Y. Tsuneoka, S. Aoki, A. Gauthier, K. Hoshino, H. Kitamura, M. Kobayashi, M. Miyanishi, K. Nakamura, M. Nakamura, Y. Nakamura, S. Nakanishi, K. Niu, K. Niwa, H. Tajima, J.M. Dunlea, S.G. Frederiksen, S. Kuramata, B.G. Lundberg, G.A. Oleynik, N.W. Reay, K. Reibel, C.J. Rush, R.A. Sidwell, N.R. Stanton, K. Moriyama, H. Shibata, T.S. Jaffery, G.R. Kalbfleisch, P.L. Skubic, J.M. Snow, S.E. Willis, W.Y. Yuan, O. Kusumoto, T. Okusawa, M. Teranaka, T. Tominaga, T. Watanabe, J. Yamato, H. Okabe, J. Yokota, M. Kazuno, F. Minakawa, E. Niu, S. Ono, H. Shibuya, S. Watanabe, Y. Sato, I. Tezuka, S.Y. Bahk and S.K. Kim, Hybrid emulsion spectrometer for the detection of hadronically produced heavy flavor states . . . A289 (1990) 146
Kodama, T., see Pascholati, P.R. . . . A281 (1989) 610
Koebel, J.M., see Samimi, M. . . . A283 (1989) 243
Koebel, J.M., see Biglari, B. . . . A283 (1989) 249
Koebel, J.M., see Siffert, P. . . . A283 (1989) 363
Koelewijn, W., see Urbanus, W.H. . . . A281 (1989) 28
Koenig, R., see Gaudiot, G. . . . A287 (1990) 37
Koepke, L., see Abrams, G. . . . A281 (1989) 55
Koeppen, L.D., see Coursey, B.M. . . . A290 (1990) 537
Koetke, D., see Abrams, G. . . . A281 (1989) 55
Koetke, D., see Alexander, J.P. . . . A283 (1989) 519
Koetke, D., see Auerbach, L. . . . A287 (1990) 378
Kofler, R., see Nemethy, P. . . . A283 (1989) 578
Koide, A., see Abrams, G. . . . A281 (1989) 55
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Kojima, H., see Mitsui, K. . . . A290 (1990) 565
Kolachev, G.M., see Aulchenko, V.M. . . . A283 (1989) 528
Kolachev, G.M., see Aulchenko, V.M. . . . A289 (1990) 468
Kolanoski, H., see Michel, E. . . . A283 (1989) 544
Köll, O., see ZEUS Calorimeter Group . . . A289 (1990) 115
Kollek, M., see Adeva, B. . . . A289 (1990) 35
Koller, M., see Adeva, B. . . . A289 (1990) 35
Kollerov, E.P., see Anashin, V.V. . . . A282 (1989) 386
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Kolobanov, V.N., see Belskiy, A.N. . . . A282 (1989) 625
Koltay, E., see Bartha, L. . . . A287 (1990) 156
Koltick, D., see Howell, B. . . . A289 (1990) 185
Komamiya, S., see Abrams, G. . . . A281 (1989) 55

Komoto, T.T., see Kataria, S.K. . . . A288 (1990) 585
Konaka, A., see Yamashita, T. . . . A283 (1989) 709
Kondakis, N., see Chi, C.Y. . . . A281 (1989) 448
Kondo, S., see Ohashi, H. . . . A285 (1989) 265
Kondoh, T., see Cho, T. . . . A289 (1990) 317
Kondratenko, V.V., see Alexandrov, Yu.M. . . . A282 (1989) 551
Konev, I.V., see Anevsky, S.I. . . . A282 (1989) 714
König, A., see Adeva, B. . . . A289 (1990) 335
König, A., see Adeva, B. . . . A290 (1990) 115
König, A.C., see Adeva, B. . . . A289 (1990) 35
Königer, M., see Masek, J. . . . A288 (1990) 104
Kononenko, S.G., see Boldyshev, V.P. . . . A282 (1989) 390
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Konter, J.A., see Van den Brandt, B. . . . A289 (1990) 526
Kooijman, P., see ZEUS Calorimeter Group . . . A289 (1990) 115
Kooijman, P., see ZEUS Calorimeter Group . . . A290 (1990) 95
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Koponen, J., see Laakso, M. . . . A283 (1989) 459
Korchuganov, V.N., see Anashin, V.V. . . . A282 (1989) 369
Korff, P., see Aston, D. . . . A283 (1989) 582
Kornadt, O., see Adeva, B. . . . A289 (1990) 35
Korneev, V.N., see Gadzhiev, A.M. . . . A282 (1989) 502
Korneev, V.N., see Gadzhiev, A.M. . . . A282 (1989) 728
Koroleva, T.K., see Zhigunov, V.P. . . . A281 (1989) 480
Korschinek, G., see Seki, S. . . . A287 (1990) 72
Körsgen, G., see Baake, M. . . . A281 (1989) 325
Korystova, A.F., see Gadzhiev, A.M. . . . A282 (1989) 502
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Koshevoi, M.O., see Alexandrov, Yu.M. . . . A282 (1989) 551
Koshevoi, M.O., see Alexandrov, Yu.M. . . . A282 (1989) 725
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Koska, W., see Bambade, P. . . . A290 (1990) 11
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Kossakowski, R., see Schreckenbach, K. . . . A284 (1989) 120
Kosse, A.I., see Ignatyev, O.V. . . . A282 (1989) 734
Kostka, P., see Bärwolff, H. . . . A283 (1989) 467
Kosyev, V.Ya., see Stankevich, V.G. . . . A282 (1989) 684
Kotcher, J., see Nemethy, P. . . . A283 (1989) 578
Kotlicki, A., see Turrell, B.G. . . . A289 (1990) 512
Kötz, U., see Möschen, J. . . . A288 (1990) 180
Kötz, U., see ZEUS Calorimeter Group . . . A289 (1990) 115
Kötz, U., see ZEUS Calorimeter Group . . . A290 (1990) 95
Kötz, U., see Drews, G. . . . A290 (1990) 335
Koudijs, R., see Urbanus, W.H. . . . A281 (1989) 28
Koutsenko, V., see L3 Collaboration . . . A285 (1989) 403
Koutsenko, V., see Adeva, B. . . . A289 (1990) 35
Kovalchuk, M.V., see Lider, V.V. . . . A282 (1989) 632
Kovinsky, V.I., see Berlev, A.I. . . . A283 (1989) 614
Kowalski, L.A., see Abrams, G. . . . A281 (1989) 55
Kowalski, L.A., see Alexander, J.P. . . . A283 (1989) 519

Kowalski, T.Z., see Smith, A. . . . A284 (1989) 375
Kozanecki, W., see Abrams, G. . . . A281 (1989) 55
Kozanecki, W., see Koska, W. . . . A286 (1989) 32
Kozanecki, W., see Phinney, N. . . . A288 (1990) 308
Kozanecki, W., see Bambade, P. . . . A290 (1990) 11
Kozarenko, E.N., see Bamburov, N.S. . . . A289 (1990) 265
Kozhevnikov, A.V., see Vorob'eva, E.A. . . . A282 (1989) 615
Kozhevnikov, I.V., see Alexandrov, Yu.M. . . . A282 (1989) 551
Kozlov, N.P., see Anevsky, S.I. . . . A282 (1989) 714
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Kozma, P., see Damdinsuren, C. . . . A288 (1990) 319
Kraan, W.H., see De Haan, V.O. . . . A289 (1990) 17
Kraemer, R.W., see Adeva, B. . . . A289 (1990) 35
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Kraft, D., see Stiebing, K.E. . . . A282 (1989) 206
Kraft, G., see Kraft-Weyrather, W. . . . A282 (1989) 22
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Krakauer, D.A., see Allen, R.C. . . . A284 (1989) 347
Kral, J.F., see Abrams, G. . . . A281 (1989) 55
Kral, J.F., see Alexander, J.P. . . . A283 (1989) 519
Krämer, D., G. Bisoffi, M. Blum, A. Friedrich, Ch. Geyer, B. Holzer, H.W. Heyng, D. Habs, E. Jaeschke, M. Jung, W. Ott, R.E. Pollock, R. Repnow, F. Schmitt and M. Steck, One year of operation at the Heidelberg TSR . . . A287 (1990) 268
Krämer, D., see Bisoffi, G. . . . A287 (1990) 320
Krämer, D., see Steck, M. . . . A287 (1990) 324
Krämer, M., see ZEUS Calorimeter Group . . . A289 (1990) 115
Krämer, M., see ZEUS Calorimeter Group . . . A290 (1990) 95
Krämer, M., see Drews, G. . . . A290 (1990) 335
Kramer, M.A., see Etkin, A. . . . A283 (1989) 557
Kramer, T., see Butler, J.M. . . . A290 (1990) 122
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Kraner, H.W., see Beuville, E. . . . A288 (1990) 68
Krasnov, V.A., see Berlev, A.I. . . . A283 (1989) 614
Krastev, V.R., see Adeva, B. . . . A289 (1990) 35
Kratel, A., see Adeva, B. . . . A289 (1990) 35
Kratz, J.V., see Matulewicz, T. . . . A289 (1990) 194
Kraus, H., see Pröbst, F. . . . A288 (1990) 125
Krause, H., see Finsel, G. . . . A290 (1990) 450
Krawiec, R., see Aderholz, M. . . . A284 (1989) 311
Krebs, G.F., see Yegneswaran, A. . . . A290 (1990) 61
Kreimeier, B., see Michel, E. . . . A283 (1989) 544
Krenz, W., see Adeva, B. . . . A289 (1990) 35
Kretschmer, W., see Clajus, M. . . . A281 (1989) 17
Kretschmer, W., see Bodmann, B. . . . A286 (1989) 214
Kretschmer, W., see Drexlin, G. . . . A289 (1990) 490
Kreuger, R., see Duijn, J.H. . . . A283 (1989) 803
Kreuger, R., see Duijn, J.H. . . . A288 (1990) 486
Kreuger, R., see Duijn, J.H. . . . A288 (1990) 493
Krick, M.S., see Ensslin, N. . . . A290 (1990) 197
Krieg, Ch., see Heugel, J. . . . A287 (1990) 109
Krienen, F., D. Loomba and W. Meng, The truncated double cosine theta superconducting septum magnet . . . A283 (1989) 5
Krinsky, S., see Yu, L.H. . . . A284 (1989) 268
Krinsky, S., see Yu, L.-H. . . . A285 (1989) 119
Krischer, W., see Lone, S. . . . A288 (1990) 507
Krischer, W., see Bock, R.K. . . . A289 (1990) 534

Krishna, N., see Etkin, A. . . . A283 (1989) 557
Krishnaswamy, M.R., see Adarkar, H. . . . A284 (1989) 422
Kritzer, A., see Gruber, A. . . . A282 (1989) 87
Krivokhatsky, A.S., see Alexandrov, B.M. . . . A288 (1990) 399
Krizmanic, J., see Chi, C.Y. . . . A281 (1989) 448
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Kross, B., see Bross, A. . . . A286 (1989) 69
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Krüger, J., see ZEUS Calorimeter Group . . . A289 (1990) 115
Krüger, J., see ZEUS Calorimeter Group . . . A290 (1990) 95
Kruk, J.W., see Etkin, A. . . . A283 (1989) 557
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Krummenacher, F., see Campbell, M. . . . A290 (1990) 149
Krumrey, M., see Tegeler, E. . . . A282 (1989) 701
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Krupchitsky, P.A., see Abov, Yu.G. . . . A284 (1989) 80
Kruzhalov, A.V., see Ivanov, V.Y. . . . A282 (1989) 559
Kruzhalov, A.V., see Pustovarov, V.A. . . . A282 (1989) 595
Krylova, L.F., see Dragun, G.N. . . . A282 (1989) 493
Kryn, D., see Aubert, B. . . . A286 (1989) 147
Kryshkin, V.I., see Gurzhiev, A.N. . . . A283 (1989) 628
Kubo, K., see Hemmi, Y. . . . A281 (1989) 462
Kubo, T., see Liu, W.P. . . . A287 (1990) 476
Kubono, S., see Kato, S. . . . A287 (1990) 499
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Kucera, M., see Kolobanov, V.N. . . . A282 (1989) 619
Kucewicz, W., see Breakstone, A. . . . A281 (1989) 453
Kucewicz, W., see Dijkstra, H. . . . A289 (1990) 400
Kudryashova, A.F., see Tarasov, L.S. . . . A282 (1989) 669
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Kuhlen, M., see Abrams, G. . . . A281 (1989) 55
Kuhn, A., see Adeva, B. . . . A289 (1990) 35
Kuipers, J.P.M., see Garabatos, C. . . . A283 (1989) 553
Kuipers, J.P.M., see Cherney, M. . . . A283 (1989) 796
Kulessa, R., see Matulewicz, T. . . . A289 (1990) 194
Kulikov, A.A., see Kislov, E.V. . . . A282 (1989) 667
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Kulipanov, G.N., see Anashin, V.V. . . . A282 (1989) 369
Kulipanov, G.N., see Anashin, V.V. . . . A282 (1989) 386
Kulipanov, G.N., see Gavrilov, N.G. . . . A282 (1989) 422
Kulipanov, G.N., see Drobyazko, I.B. . . . A282 (1989) 424
Kulipanov, G.N., see Dragun, G.N. . . . A282 (1989) 493
Kulipanov, G.N., see Dragun, G.N. . . . A282 (1989) 495
Kulipanov, G.N., see Török, Sz. . . . A282 (1989) 499
Kulipanov, G.N., see Baryshev, V.B. . . . A282 (1989) 570
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Kulke, B., see Luna, H.B. . . . A285 (1989) 349
Kumabe, I., see Koori, N. . . . A281 (1989) 243
Kumada, M., see Hiramatsu, S. . . . A285 (1989) 83
Kumagai, H., see Liu, W.P. . . . A287 (1990) 476
Kunin, A., see L3 Collaboration . . . A285 (1989) 403
Kunin, A., see L3 Collaboration . . . A288 (1990) 364
Kunin, A., see Adeva, B. . . . A289 (1990) 35
Kunori, S., see Butler, J.M. . . . A290 (1990) 122
Kunsch, J., see Braatz, U. . . . A283 (1989) 240
Kuper, E.A., see Anashin, V.V. . . . A282 (1989) 369
Kuramata, S., see Kodama, K. . . . A289 (1990) 146
Kurashige, H., see Hemmi, Y. . . . A281 (1989) 462
Kurashige, H., see Yamashita, T. . . . A283 (1989) 709
Kurchaninov, L.L., see Gurzhiev, A.N. . . . A283 (1989) 628
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Kurino, H., see Hiramatsu, S. . . . A285 (1989) 83
Kurita, K., see E-802 Collaboration . . . A290 (1990) 41
Kurkin, G.Ya., see Anashin, V.V. . . . A282 (1989) 369
Kuroda, K., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Kuruma, S., see Mima, K. . . . A285 (1989) 47
Kushnir, V.I. and E.V. Suvorov, On the utilization of backscattering ($2\theta \approx \pi$) for bright X-ray optics design . . . A282 (1989) 539
Kustner, F., see Heugel, J. . . . A287 (1990) 109
Kusumoto, O., see Kodama, K. . . . A289 (1990) 146
Kutschera, W., see Berkovits, D. . . . A281 (1989) 663
Kuwahara, K., see Nakamura, S. . . . A286 (1989) 323
Kuwahara, K., see Ichinose, H. . . . A286 (1989) 327
Kuzmin, E.S., see Budyashova, S.Yu. . . . A281 (1989) 667
Kuzminykh, V.S., see Anashin, V.V. . . . A282 (1989) 369
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Kuznetsov, I.A., see Vorobiov, A.V. . . . A284 (1989) 127
Kuznetsov, V.L., see Beda, A.G. . . . A284 (1989) 77
Kvaavik, D., see Alvsvåg, S.J. . . . A290 (1990) 320
Kwan, S., see Adeva, B. . . . A289 (1990) 35
Kwon, Y., see Aston, D. . . . A283 (1989) 582
Kwon, Y., see Aston, D. . . . A283 (1989) 590
Kyberd, P., see Akrawy, M. . . . A290 (1990) 76

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Labarga, L., see Abrams, G. . . . A281 (1989) 55

Labarga, L., see Adolphsen, C. A288 (1990) 257
Labbé, J.C., see LAA-LAD Group A289 (1990) 351
Labov, S.E., see Luke, P.N. A289 (1990) 406
Lacava, F., see Bacci, C. A284 (1989) 536
Lacotte, J., see Adeva, B. A289 (1990) 35
Lacotte, J.C., see Bacci, C. A284 (1989) 536
Lacotte, J.C., see Aubert, B. A286 (1989) 147
LaCroix, J.M., see Weitkamp, W.G. A287 (1990) 283
Lacroix, M., see Arnould, M. A282 (1989) 99
Ladrón de Guevara, P., see Garabatos, C. A283 (1989) 553
Ladrón de Guevara, P., see Cherney, M. A283 (1989) 796
Lagarde, B., VUV monochromators on Super-ACO A282 (1989) 745
Laget, J.P., see Dei-Cas, R. A285 (1989) 320
Laghai, M.R., see FNAL-E581/704 Collaboration A290 (1990) 269
Lagoutine, F., see Coursol, N. A286 (1989) 589
Lagrange, J.M., see Dionisio, J.S. A282 (1989) 10
Lahr, U., see Hinterberger, F. A284 (1989) 523
Lai, B., see Chapman, K. A283 (1989) 88
Lai Weiguan, see Zhang Zhongmu A287 (1990) 33
Lallier, E., see Yegneswaran, A. A290 (1990) 61
Lamanna, E., see Angelini, C. A281 (1989) 50
Lamanna, E., see WA84 Collaboration A289 (1990) 342
Lamanna, E., see WA84 Collaboration A289 (1990) 356
Lamarra, M., see Adeva, B. A289 (1990) 35
Lamaze, G.P., see Byrne, J. A284 (1989) 116
Lamaze, G.P., see Gilliam, D.M. A284 (1989) 220
Lamb, D.C., see Solomey, N. A283 (1989) 673
Lambert, J.M., see Howell, C.R. A290 (1990) 424
Lambert, P., see Waast, B. A287 (1990) 26
Lamberty, A., see Byrne, J. A284 (1989) 116
Lambrecht, A., see Masek, J. A288 (1990) 104
Lambrecht, R.M., M. Sajjad, R.H. Syed and W. Meyer, Target preparation and recovery of enriched isotopes for medical radionuclide production A282 (1989) 296
Lamfers, H.J., see Schotanus, P. A281 (1989) 162
Lami, S., see Bosi, F. A283 (1989) 532
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Lamoreaux, S.K., see Richardson, D.J. A284 (1989) 192
Landaud, G., see Yegneswaran, A. A290 (1990) 61
Lander, R.L., see Kodama, K. A289 (1990) 146
Landi, G., see Adeva, B. A289 (1990) 35
Landua, R., see ASTERIX Collaboration A286 (1989) 76
Lang, D.W., Variations in dead-time corrections for multiplicity measurements made with paralysable and nonparalysable systems A287 (1990) 559
Lange, A., see Michel, E. A283 (1989) 544
Lange, W., see Adeva, B. A289 (1990) 35
Langerveld, D., see Hahn, F. A283 (1989) 686
Langerveld, D., see Van Apeldoorn, G. A283 (1989) 767
Langkau, R., see Finsel, G. A290 (1990) 450
Lanier, R.G., see Fowler, M.M. A281 (1989) 517
Lanius, K., see Adeva, B. A289 (1990) 35
Lankford, A.J., see Abrams, G. A281 (1989) 55
Lankford, A.J., E. Barsotti and I. Gaines, Data acquisition and online processing requirements for experimentation at the superconducting super collider A289 (1990) 597
Lanske, D., see Adeva, B. A289 (1990) 35
Lanza, A., see Bertino, M. A283 (1989) 654
Lanza, R., see E-802 Collaboration A290 (1990) 41
Lanzano, S., see Adeva, B. A289 (1990) 35
Lanzano, S., see Adeva, B. A289 (1990) 335
Lanzano, S., see Adeva, B. A290 (1990) 115

LaPierre, C., see Kirlin, P.S. . . . A289 (1990) 261
Lapin, E.G., see Alexeev, V.L. . . . A284 (1989) 181
Lapshin, E.N., see Kurek, N.K. . . . A282 (1989) 490
Lapukhov, A.S., see Kolmogorov, Yu.P. . . . A282 (1989) 692
Lariccia, P., see Bosi, F. . . . A283 (1989) 532
Lariccia, P., see Ansari, R. . . . A288 (1990) 240
Larsen, R.R., see Abrams, G. . . . A281 (1989) 55
Larson, B.W., see Henderson, R.S. . . . A286 (1989) 41
Larson, J.D., see Fortuna, G. . . . A287 (1990) 253
Larsson, J., see Werin, S. . . . A290 (1990) 589
Larsson, U., see Amendolia, S.R. . . . A283 (1989) 573
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Laskowski, J., see Przyłuski, J. . . . A283 (1989) 144
Lasota, M.M.B., see Carter, J.R. . . . A286 (1989) 99
Last, J., see Döhner, J. . . . A284 (1989) 123
Lath, A., see SLD-WIC Collaboration . . . A289 (1990) 449
Lath, A., see Benvenuti, A.C. . . . A289 (1990) 463
Lath, A., see Benvenuti, A. . . . A289 (1990) 577
Lath, A., see Benvenuti, A.C. . . . A290 (1990) 353
Latham, P.E., see Booske, J.H. . . . A285 (1989) 92
Latham, R.V., The insulation of high voltages in an accelerator environment: recent advances . . . A287 (1990) 40
Lau, K., see Hungerford, D. . . . A286 (1989) 155
Lau, K.H., see Allaby, J.V. . . . A281 (1989) 291
Laundy, D., Calculation of the polarisation of synchrotron radiation . . . A290 (1990) 248
Laundy, D., see Collins, S.P. . . . A290 (1990) 254
Laurelli, P., see Antonelli, A. . . . A281 (1989) 589
Laurelli, P., see Bagliesi, G. . . . A286 (1989) 61
Laurelli, P., see Anelli, M. . . . A289 (1990) 294
Laurens, P., see Abolins, M. . . . A289 (1990) 543
Laurenti, G., see LAA-LAD Group . . . A289 (1990) 351
Lauriola, P., see Bollini, D. . . . A283 (1989) 635
Lavin, M., see Dytlewski, N. . . . A288 (1990) 641
Lavine, T.L., see Allaby, J.V. . . . A281 (1989) 291
Law, W.M., C.D.P. Levy and P.W. Schmor, Emittance and brightness measurements in a proton electron cyclotron resonance ion source . . . A290 (1990) 308
Lazarenko, O.B., see Aulchenko, V.M. . . . A283 (1989) 528
Le Bervet, L., see Waast, B. . . . A287 (1990) 26
Le Coultre, P., see L3 Collaboration . . . A288 (1990) 364
Le Coultre, P., see Adeva, B. . . . A289 (1990) 35
Le Denmat, G., see Bradaschia, C. . . . A289 (1990) 518
Le Goff, A., see Waast, B. . . . A287 (1990) 26
Le Goff, J.M., see Adeva, B. . . . A289 (1990) 35
Le Marec, J.C., see Adeva, B. . . . A289 (1990) 35
Le Merdy, A., see Burgei, R. . . . A287 (1990) 481
Le Meur, J., see Bonin, B. . . . A288 (1990) 379
Le Meur, J., see Bonin, B. . . . A288 (1990) 389
Le Polotec, L., see Blondiaux, G. . . . A287 (1990) 125
Lea, D., see Adeva, B. . . . A289 (1990) 35
Leach, D.D., see Weitkamp, W.G. . . . A287 (1990) 283
Leavitt, C., see Auerbach, L. . . . A287 (1990) 378
Lebeau, M., see Adeva, B. . . . A289 (1990) 35
Lebert, R., see Neff, W. . . . A285 (1989) 253
Leboutet, H., see Dei-Cas, R. . . . A285 (1989) 320
Lebrun, P., see Adeva, B. . . . A289 (1990) 35
Leclaire, B., see Amendolia, S.R. . . . A283 (1989) 573
Leclaire, B., see Barczewski, T. . . . A289 (1990) 176
Lecomte, P., see L3 Collaboration . . . A285 (1989) 403
Lecomte, P., see Adeva, B. . . . A289 (1990) 35
Lecoq, J., see Adeva, B. . . . A289 (1990) 35

Lecoq, P., see Adeva, B. . . . A289 (1990) 35
LeCoultre, P., see L3 Collaboration . . . A285 (1989) 403
Leder, G., see Carli, Ch. . . . A283 (1989) 723
Ledoux, R.J., see E-802 Collaboration . . . A290 (1990) 41
Lee, A.T., see Young, B.A. . . . A288 (1990) 119
Lee, H.Y., see Allaby, J.V. . . . A281 (1989) 291
Lee, J.C., see Kodama, K. . . . A289 (1990) 146
Lee, P., see Butler, J.M. . . . A290 (1990) 122
Lee, P.S., see Talmadge, S. . . . A285 (1989) 333
Lee, S.B., see Kodama, K. . . . A289 (1990) 146
Lee, S.M., see Motobayashi, T. . . . A284 (1989) 526
Lee, W., see Chi, C.Y. . . . A281 (1989) 448
Leedom, I., see Adeva, B. . . . A289 (1990) 35
Leedy, R.E., see Allaby, J.V. . . . A281 (1989) 291
Lees, J.E., see Fraser, G.W. . . . A284 (1989) 483
Lees, J.E., see Barstow, M.A. . . . A286 (1989) 350
Lefebvre, M., see Alitti, J. . . . A283 (1989) 646
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Léger, A., see Adeva, B. . . . A289 (1990) 35
LeGoff, J.M., see Adeva, B. . . . A289 (1990) 335
LeGoff, J.M., see Adeva, B. . . . A290 (1990) 115
Legros, M., see Turrell, B.G. . . . A289 (1990) 512
Legros, P., see Antinori, F. . . . A288 (1990) 82
Lehar, F., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Lehmann, F., see Adeva, B. . . . A289 (1990) 35
Lehmann, J., see ZEUS Calorimeter Group . . . A289 (1990) 115
Lehraus, I., see Amendolia, S.R. . . . A283 (1989) 573
Lehraus, I., see Barczewski, T. . . . A289 (1990) 176
Leibovitch, C., see Bekefi, G. . . . A285 (1989) 230
Leijtens, X., see Adeva, B. . . . A289 (1990) 335
Leijtens, X., see Adeva, B. . . . A290 (1990) 115
Leisi, H.J., see Rusi El Hassani, A.J. . . . A290 (1990) 109
Leistam, L., see Adeva, B. . . . A289 (1990) 35
Leiste, R., see Chilingarov, A.G. . . . A288 (1990) 62
Leiste, R., see Adeva, B. . . . A289 (1990) 35
Leith, D., see Aston, D. . . . A283 (1989) 582
Leith, D., see Aston, D. . . . A283 (1989) 590
Lejeune, C., see Coste, Ph. . . . A288 (1990) 517
Lejeune, E., see Adeva, B. . . . A289 (1990) 35
Leleux, G., see Moalem, A. . . . A289 (1990) 168
Lelli, V., see Nava, F. . . . A290 (1990) 457
Lellouch, D., see Beard, C. . . . A286 (1989) 117
Lemaire, M.-C., see Burgei, R. . . . A287 (1990) 481
Lemke, S., see Hebrank, F. . . . A288 (1990) 541
Lemonne, J., see Stichelbaut, F. . . . A283 (1989) 792
Lena, A., see Tolentino, H. . . . A289 (1990) 307
Lennert, P., see Fischer, H.M. . . . A283 (1989) 492
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Leoni, B., see Adeva, B. . . . A289 (1990) 35
Leontiev, L.A., see Aulchenko, V.M. . . . A289 (1990) 468
Lepeltier, V., see Brand, C. . . . A283 (1989) 567
Lepère, D., see Flamand, J. . . . A282 (1989) 532
Lerch, P., see Gostely, J.-J. . . . A290 (1990) 521
Leroy, C., see Angelis, A.L.S. . . . A283 (1989) 762
Letessier-Selvon, A., see Yegneswaran, A. . . . A290 (1990) 61
Letournel, M., Vivitron techniques . . . A287 (1990) 7
Lettry, J., see L3 Collaboration . . . A285 (1989) 403
Lettry, J., see L3 Collaboration . . . A288 (1990) 364
Lettry, J., see Adeva, B. . . . A289 (1990) 35

Leu, M., see Hinderer, G. . . . A287 (1990) 287
Leubner, C., see Steinmüller-Nethl, D. . . . A285 (1989) 307
Leung, S.P., see Allaby, J.V. . . . A281 (1989) 291
Leushkin, E.K., see Alexeev, V.L. . . . A284 (1989) 181
Leutz, H., see Angelini, C. . . . A281 (1989) 50
Leutz, H., see WA84 Collaboration . . . A289 (1990) 342
Leutz, H., see WA84 Collaboration . . . A289 (1990) 356
Levi, G., see LAA-LAD Group . . . A289 (1990) 351
Levi, M., J. Nash and S. Watson, Precision measurements of the SLC spectrometer magnets . . . A281 (1989) 265
Levi, M.E., see Abrams, G. . . . A281 (1989) 55
Levichev, E.B., see Anashin, V.V. . . . A282 (1989) 369
Levine, M.J., see E-802 Collaboration . . . A290 (1990) 41
Levinson, L., see Beard, C. . . . A286 (1989) 117
Levman, G., see ZEUS Calorimeter Group . . . A289 (1990) 115
Levman, G., see ZEUS Calorimeter Group . . . A290 (1990) 95
Levush, B., see Booske, J.H. . . . A285 (1989) 92
Levush, B. and T.M. Antonsen Jr, Nonlinear mode competition and coherence in low gain FEL oscillators . . . A285 (1989) 136
Levy, C.D.P., see Law, W.M. . . . A290 (1990) 308
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Lewis, R.A., see Armstrong, T.A. . . . A289 (1990) 109
Ley, R., see Poth, H. . . . A287 (1990) 328
Leytens, X., see Adeva, B. . . . A289 (1990) 35
L'Hôte, D., see Burgei, R. . . . A287 (1990) 481
Li, A., see Howell, C.R. . . . A290 (1990) 424
Li, C., see Adeva, B. . . . A289 (1990) 35
Li, D., see Fang, Y. . . . A290 (1990) 597
Li, H.T., see Adeva, B. . . . A289 (1990) 35
Li, J., see Butler, J.M. . . . A290 (1990) 122
Li, L., see Fabbretti, R. . . . A287 (1990) 413
Li, L., see Adeva, B. . . . A289 (1990) 35
Li, L., see Adeva, B. . . . A289 (1990) 335
Li, L., see Adeva, B. . . . A290 (1990) 115
Li, P.J., see Adeva, B. . . . A289 (1990) 35
Li, R., see Butler, J.M. . . . A290 (1990) 122
Li, X.G., see Adeva, B. . . . A289 (1990) 35
Li, Z., see Abrams, G. . . . A281 (1989) 55
Liao, J.Y., see Adeva, B. . . . A289 (1990) 35
Liaud, P., see Schreckenbach, K. . . . A284 (1989) 120
Liberali, V., see Buttler, W. . . . A288 (1990) 140
Lichard, P., see Nava, F. . . . A290 (1990) 457
Lidén, F., HYSTRIX – A 4π plastic phoswhich array providing on-line channel selection for in-beam γ-ray spectroscopy . . . A288 (1990) 455
Lider, V.V., O.P. Aleshko-Ozhevskij, Yu.N. Shilin, M.V. Kovalchuk, Yu.M. Litvinov and S.N. Mazurenko, A station for synchrotron X-ray topography . . . A282 (1989) 632
Lieb, K.P., see Osipowicz, Th. . . . A282 (1989) 236
Ligabue, F., see Bagliesi, G. . . . A286 (1989) 61
Liguori, G., see Bertino, M. . . . A283 (1989) 654
Liko, D., see Garabatos, C. . . . A283 (1989) 553
Liko, D., see Cherney, M. . . . A283 (1989) 796
Lillestøl, E., see Alvsvåg, S.J. . . . A290 (1990) 320
Lillethun, E., see Alvsvåg, S.J. . . . A290 (1990) 320
Lim, G.Y., see Kodama, K. . . . A289 (1990) 146
Lim, I.T., see Kodama, K. . . . A289 (1990) 146
Lin, F.C., see Hwang, C.S. . . . A288 (1990) 324
Lin, Z.R., see L3 Collaboration . . . A285 (1989) 403
Lin, Z.Y., see Adeva, B. . . . A289 (1990) 35
Lincke, E., see Chi, C.Y. . . . A281 (1989) 448
Lindblad, Th., see Borsuk, S. . . . A284 (1989) 430
Linde, F.L., see Adeva, B. . . . A289 (1990) 35
Lindenbaum, S.J., see Etkin, A. . . . A283 (1989) 557

Lindström, G., see Fretwurst, E. . . . A288 (1990) 1
Linn, S.L., A method for fast electromagnetic shower simulation in the Geant Monte Carlo program . . . A288 (1990) 598
Linnhöfer, D., see Adeva, B. . . . A289 (1990) 35
Linssen, L., see Alitti, J. . . . A283 (1989) 646
Lintern, A.L., see Damerell, C.J.S. . . . A288 (1990) 236
Linz, A., see Booske, J.H. . . . A285 (1989) 92
Lipilin, A.V., see Belskiy, A.N. . . . A282 (1989) 625
Lipnik, P., see Arnould, M. . . . A282 (1989) 99
Lippi, I., see Allaby, J.V. . . . A281 (1989) 291
Lippi, I., M. Mazzucato, M. Pegoraro, M. Pernicka and G. Zumerle, The multiplexed ADC system and the FASTBUS readout for the DELPHI forward electromagnetic calorimeter . . . A286 (1989) 243
Lippold, H., see Bärwolff, H. . . . A283 (1989) 467
Lipton, R.J., see Kodama, K. . . . A289 (1990) 146
Lisowski, B., see Beuville, E. . . . A288 (1990) 157
Lisowski, B., see Ansari, R. . . . A288 (1990) 240
Lissauer, D., see Debbe, R. . . . A283 (1989) 772
Litke, A., see Adolphsen, C. . . . A288 (1990) 257
Litke, A.M., see Abrams, G. . . . A281 (1989) 55
Litvinenko, V.N., see Gavrilov, N.G. . . . A282 (1989) 422
Litvinenko, V.N., see Drobyazko, I.B. . . . A282 (1989) 424
Litvinov, Yu.M., see Kulipanov, G.N. . . . A282 (1989) 590
Litvinov, Yu.M., see Lider, V.V. . . . A282 (1989) 632
Liu, J., see Hungerford, D. . . . A286 (1989) 155
Liu Shenggang, A survey of FEL activity in China . . . A285 (1989) 63
Liu, S.Y.R., see Barry, W. . . . A288 (1990) 593
Liu, W.P., T. Kubo, H. Kumagai, T. Nakagawa, T. Suzuki, M. Yanokura, I. Tanihata, T. Ito, T. Kashigawi, J. Kikuchi, H. Yamaguchi, T. Doke, H. Murakami, T. Yanagimachi and N. Hasebe, Identification of projectile fragments using position sensitive silicon detectors . . . A287 (1990) 476
Liu Yanton, see Su Tongling . . . A287 (1990) 452
Livan, M., see Borer, K. . . . A286 (1989) 128
Ljubičić Jr., A., see Vasileiadis, G. . . . A289 (1990) 618
Ljuslin, C., see Lone, S. . . . A288 (1990) 507
Ljuslin, C., see Bock, R.K. . . . A289 (1990) 534
Ljuslin, C., see Ermolin, Y. . . . A289 (1990) 592
Llères, A., see Benrachi, F. . . . A281 (1989) 137
Llères, A., see AMORPHA Collaboration . . . A281 (1989) 528
Llewellyn, T.J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Llope, W.J., see Fatyga, M. . . . A284 (1989) 323
Llopis, A., see Benlloch, J.M. . . . A290 (1990) 327
Lloyd, J., see Aderholz, M. . . . A284 (1989) 311
Lloyd, S.L., see Carter, J.R. . . . A286 (1989) 99
Lloyd, S.L., see Carter, A.A. . . . A286 (1989) 107
Lo Bianco, G., see Aulchenko, V.M. . . . A289 (1990) 468
Lobatch, V.A., see Pustovarov, V.A. . . . A282 (1989) 595
Lobov, G.A., see Abov, Yu.G. . . . A284 (1989) 80
Loepfe, R., see Mittelholzer, M. . . . A288 (1990) 110
Loftin, E., see Adeva, B. . . . A289 (1990) 35
Loh, E.C., see Allaby, J.V. . . . A281 (1989) 291
Lohmann, W., see Adeva, B. . . . A289 (1990) 35
Lohse, T., see Amendolia, S.R. . . . A283 (1989) 573
Lohse, T., see Emma, P. . . . A288 (1990) 313
Lohse, T., see Barczewski, T. . . . A289 (1990) 176
Lohse, T., see Bambade, P. . . . A290 (1990) 11
Loiselet, M., see Arnould, M. . . . A282 (1989) 99
Loiselet, M., see Naviliat-Cuncic, O. . . . A287 (1990) 487
Lökös, S., see Adeva, B. . . . A289 (1990) 35
Lokos, S., see Adeva, B. . . . A289 (1990) 335
Lokos, S., see Adeva, B. . . . A290 (1990) 115
Lombard, R.M., see Bonin, B. . . . A288 (1990) 379
Lombard, R.M., see Bonin, B. . . . A288 (1990) 389
Lombardi, A., see Fortuna, G. . . . A287 (1990) 253

Lombardi, A., see Dainelli, A. . . . A287 (1990) 279
Lombardi, A., see Bonifacio, R. . . . A289 (1990) 1
Lone, M.A., see Potvin, L. . . . A281 (1989) 359
Lone, S., R.K. Bock, Y. Ermolin, W. Krischer, C. Ljuslin, K. Zografos and A. Sandoval, Fine-grain parallel computer architectures in future triggers . . . A288 (1990) 507
Lone, S., see Bock, R.K. . . . A289 (1990) 534
Long, K.R., see ZEUS-UK Collaboration . . . A283 (1989) 477
Longacre, R.S., see Etkin, A. . . . A283 (1989) 557
Longo, E., see Adeva, B. . . . A289 (1990) 35
Longo, M., see Bradaschia, C. . . . A289 (1990) 518
Longoni, A., M. Sampietro and L. Strüder, Instability of the behaviour of high resistivity silicon detectors due to the presence of oxide charges . . . A288 (1990) 35
Longoni, A., see Rehak, P. . . . A288 (1990) 168
Longoni, A., see Strüder, L. . . . A288 (1990) 227
Longoria-Gandara, L., M.U. Rajput and T.D. Mac Mahon, Gamma-ray emission probabilities in the decay of ^{65}Ni and ^{125}Sb . . . A286 (1989) 529
Loomba, D., see Krienen, F. . . . A283 (1989) 5
Lopiano, D., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Lops, M., see Bradaschia, C. . . . A289 (1990) 518
Lorenzen, P., H. Rothard, K. Kroneberger, J. Kemmler, M. Burkhard and K.O. Groeneveld, Target characterization by fast ion impact . . . A282 (1989) 213
Loreti, M., see Benvenuti, A.C. . . . A284 (1989) 339
Loreti, M., see SLD-WIC Collaboration . . . A289 (1990) 449
Loreti, M., see Benvenuti, A.C. . . . A289 (1990) 463
Loreti, M., see Benvenuti, A. . . . A289 (1990) 577
Loreti, M., see Benvenuti, A.C. . . . A290 (1990) 353
Lorstadt, B., see Brand, C. . . . A283 (1989) 567
Loude, J.-F., see UA6 Collaboration . . . A286 (1989) 49
Loughlin, M.J., P. Van Belle, N.P. Hawkes, O.N. Jarvis, G. Sadler and D.B. Syme, Measurement of the fractional thermonuclear neutron yield during deuterium neutral-beam injection into deuterium plasmas . . . A281 (1989) 184
Loukas, D., see Van Apeldoorn, G. . . . A283 (1989) 767
Louvel, M., see Motobayashi, T. . . . A284 (1989) 526
Love, W.A., see Etkin, A. . . . A283 (1989) 557
Lovhoiden, G., see Garabatos, C. . . . A283 (1989) 553
Lovhoiden, G., see Cherney, M. . . . A283 (1989) 796
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Lu, A., see Aston, D. . . . A283 (1989) 582
Lu, A., see Aston, D. . . . A283 (1989) 590
Lu, Y.S., see L3 Collaboration . . . A285 (1989) 403
Lu, Y.S., see Adeva, B. . . . A289 (1990) 35
Lubbers, J.M., see Adeva, B. . . . A289 (1990) 35
Lübelsmeyer, K., see Adeva, B. . . . A289 (1990) 35
Lucas, B., see Burgei, R. . . . A287 (1990) 481
Lucas, S.E.M., see Woods, M.J. . . . A286 (1989) 517
Lucchesi, D., see WA84 Collaboration . . . A289 (1990) 342
Luci, C., see Adeva, B. . . . A289 (1990) 35
Luckey, D., see Adeva, B. . . . A289 (1990) 35
Ludewigt, B.A., see Renner, T.R. . . . A281 (1989) 640
Ludlam, T., see Debbe, R. . . . A283 (1989) 772
Ludwig, E.J., see Abbott, D.J. . . . A284 (1989) 409
Ludwig, J., see Fischer, H.M. . . . A283 (1989) 492
Lue, X., see Adeva, B. . . . A289 (1990) 35
Luehring, F.C., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Lueking, L., see Chi, C.Y. . . . A281 (1989) 448
Lugol, J.-C., see Burgei, R. . . . A287 (1990) 481
Lugol, J.C., see Bonin, B. . . . A288 (1990) 379
Lugol, J.C., see Bonin, B. . . . A288 (1990) 389
Lüke, D., see ZEUS Calorimeter Group . . . A289 (1990) 115

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Lumb, D.H., Applications of charge coupled devices to X-ray astrophysics missions A288 (1990) 219
Lumb, D.H., Calibration and X-ray spectroscopy with silicon CCDs A290 (1990) 559
Luminari, L., see Adeva, B. A289 (1990) 35
Lumpkin, A.H., see Warren, R.W. A285 (1989) 1
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Lund, J.C. and F. Olschner, Simulation of charge transport in semiconductor radiation detectors A288 (1990) 31
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Luo, X., see Xu, G. A282 (1989) 161
Lürken, F., see Adeva, B. A289 (1990) 35
Lush, G.J., see ZEUS-UK Collaboration A283 (1989) 477
Lushchikov, V.I., see Kharitonov, A.G. A284 (1989) 98
Lusiani, A., see Amendolia, S.R. A283 (1989) 573
Lusiani, A., see Barczewski, T. A289 (1990) 176
Lusiani, A., see Amendolia, S.R. A289 (1990) 539
Lusiani, A., see Amendolia, S.R. A289 (1990) 569
Lüth, V., see Abrams, G. A281 (1989) 55
Lüth, V., see Adolphsen, C. A288 (1990) 257
Lutz, G., see Kemmer, J. A288 (1990) 92
Lutz, G., see Buttler, W. A288 (1990) 140
Lutz, G., see Buttler, W. A288 (1990) 187
Lutz, G., see Strüder, L. A288 (1990) 227
Lutz, J.R., J.C. Marsaudon, R. Baumann, G. Biechel, E. Kapps, R. Knaebel, C. Muller, J.A. Persigny, G. Rech and D. Stadelmann, MP tests for the Vivitron process control A287 (1990) 166
Lützenkirchen, K., see Overbeck, M. A288 (1990) 413
Lyakhov, N.Z., see Gaponov, Yu.A. A282 (1989) 695
Lyakhov, N.Z., see Gaponov, Yu.A. A282 (1989) 698
Lyle, W., see Chi, C.Y. A281 (1989) 448
Lynch, G.R., see Abrams, G. A281 (1989) 55
Lynch, H.L., see Allaby, J.V. A281 (1989) 291
Lynch, J.G., see Bagliesi, G. A286 (1989) 61
Lynn, K.G., see Huomo, H. A284 (1989) 359
Lyons, T., see Benvenuti, A.C. A284 (1989) 339
Lyons, T., see Benvenuti, A.C. A289 (1990) 463
Lyons, T., see Benvenuti, A.C. A290 (1990) 353
Lysaght, P.S., see Fowler, M.M. A281 (1989) 517

Ma, H., H. Newman, R.Y. Zhu and R. Hamm, Calibration of electromagnetic calorimeters in high energy experiments with a radio frequency quadrupole accelerator A281 (1989) 469
Ma, H., see Adeva, B. A289 (1990) 35
Ma, W.G., see Adeva, B. A289 (1990) 35
Mac Mahon, T.D., see Longoria-Gandara, L. A286 (1989) 529
Mac Mahon, T.D., see Lowles, I.M. A286 (1989) 556
Mac Mahon, T.D., see Gray, P.W. A286 (1989) 569
Maccarrone, G., see LAA-LAD Group A289 (1990) 351
MacDermott, M., see Adeva, B. A289 (1990) 35

Macdonald, E.W., see Davinson, T. ... A288 (1990) 245
MacFarlane, D.B., see Michel, E. ... A283 (1989) 544
Mackay, J.S., see Hughes, E.A. ... A282 (1989) 392
Macklin, R.L., Maxwellian cascade model ... A290 (1990) 516
MacNaughton, J., see Garabatos, C. ... A283 (1989) 553
MacNaughton, J., see Cherney, M. ... A283 (1989) 796
Madansky, L., see Chi, C.Y. ... A281 (1989) 448
Madansky, L., see Etkin, A. ... A283 (1989) 557
Madansky, L., see Yegneswaran, A. ... A290 (1990) 61
Madey, J.M.J., see Bhowmik, A. ... A281 (1989) 224
Madjar, N., see Adeva, B. ... A289 (1990) 35
Madsen, M.M., see Oed, A. ... A284 (1989) 223
Maeda, K., see Akei, M. ... A283 (1989) 46
Maeda, K., see Niizeki, T. ... A287 (1990) 455
Mæland, O.A., see Alvsvåg, S.J. ... A290 (1990) 320
Maelhum, G., see Dijkstra, H. ... A289 (1990) 400
Maezawa, H., see Cho, T. ... A289 (1990) 317
Magahiz, R., see Nemethy, P. ... A283 (1989) 578
Magahiz, R., see Adeva, B. ... A289 (1990) 35
Magahiz, R., see Adeva, B. ... A289 (1990) 335
Magahiz, R., see Adeva, B. ... A290 (1990) 115
Magerl, A., see Brocker, C. ... A290 (1990) 303
Magerl, A. and C. Holm, Growth of Si_9Ge_1 single crystals and their application in high-resolution neutron spectroscopy ... A290 (1990) 414
Maggi, G., see Bagliesi, G. ... A286 (1989) 61
Maggiani, F., see Beverini, N. ... A289 (1990) 532
Magnan, A., see Cadoret, R. ... A283 (1989) 339
Magnani, A., see Nava, F. ... A290 (1990) 457
Maiano, P., see Bollini, D. ... A283 (1989) 635
Maier, H.J., Preparation of ductile Zr from ZrO_2 ... A282 (1989) 113
Maier, H.J., Preparation of elemental Si from SiO_2 ... A282 (1989) 116
Maier, H.J., H.U. Friebel, D. Frischke and R. Grossmann, Special techniques of nuclear target preparation ... A282 (1989) 128
Maier-Komor, P., Nonmetallic targets for heavy ion experiments ... A282 (1989) 67
Maier-Komor, P., Ferromagnetic gadolinium foils for transient field experiments ... A282 (1989) 133
Maier-Komor, P., see Dollinger, G. ... A282 (1989) 153
Maier-Komor, P., Large area polyimide foils for heavy ion gas detector systems ... A282 (1989) 172
Maier-Komor, P., see Dollinger, G. ... A282 (1989) 223
Maire, M., see Adeva, B. ... A289 (1990) 35
Maisch, T., R. Günzler, M. Weiser, S. Kalbitzer, W. Welser and J. Kemmer, Ion-implanted Si pn-junction detectors with ultrathin windows ... A288 (1990) 19
Maison, J.M., see Waast, B. ... A287 (1990) 26
Maissen, C., see Masek, J. ... A288 (1990) 104
Maiste, A.A., see Zhurakovskii, A.P. ... A282 (1989) 613
Majewski, S., M. Bowen, J. Szaban and C. Zorn, Radiation damage tests of a PMP scintillator ... A281 (1989) 497
Majewski, S., M. Bowen, C. Zorn, K. Johnson, V. Hagopian, J. Thomaston and H. Wahl, Radiation damage studies in plastic scintillators with a 2.5-MeV electron beam ... A281 (1989) 500
Majewski, S., see Jibaly, M. ... A283 (1989) 692
Majka, R., see Beringer, R. ... A290 (1990) 370
Makhov, V.N., see Alexandrov, Yu.M. ... A282 (1989) 580
Makhov, V.N., see Alexandrov, Yu.M. ... A282 (1989) 597
Maki, T., see FNAL-E581/704 Collaboration ... A290 (1990) 269
Makino, S., see FNAL-E581/704 Collaboration ... A290 (1990) 269
Makowiecki, D., see Debbe, R. ... A283 (1989) 772
Makowiecki, D., see Fatyga, M. ... A284 (1989) 323
Makowski, M., see Jong, R.A. ... A285 (1989) 379
Malamud, E., see Butler, J.M. ... A290 (1990) 122
Malaschenko, V.A., see Anevsky, S.I. ... A282 (1989) 714
Malecki, P., see ZEUS Calorimeter Group ... A290 (1990) 95
Malev, M.D., see Weisser, D.C. ... A287 (1990) 64
Malglaive, J.C., see Ortega, J.M. ... A285 (1989) 97
Malhotra, P.K., see Adeva, B. ... A289 (1990) 35

Malik, A., see Drexlin, G. . . . A289 (1990) 490
Malik, R.J., see Ripamonti, G. . . . A288 (1990) 99
Malik, S.S., see Steyerl, A. . . . A284 (1989) 200
Malina, V.P., see Khvostova, V.P. . . . A282 (1989) 516
Malinin, A., see L3 Collaboration . . . A285 (1989) 403
Malinin, A., see Adeva, B. . . . A289 (1990) 35
Maloberti, F., see Buttler, W. . . . A288 (1990) 140
Malos, J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Maltsev, E.I., see Barabash, L.S. . . . A288 (1990) 375
Mamane, G., see Fowler, M.M. . . . A281 (1989) 517
Mampe, W., see Anton, F. . . . A284 (1989) 101
Mampe, W., P. Ageron, J.C. Bates, J.M. Pendlebury and A. Steyerl, Neutron lifetime from a liquid walled bottle A284 (1989) 111
Mampe, W., see Baumann, J. . . . A284 (1989) 130
Mampe, W., see Baumann, J. . . . A284 (1989) 184
Mampe, W., see Eder, K. . . . A284 (1989) 171
Man, C.N., see Bradaschia, C. . . . A289 (1990) 518
Mana, C., see Adeva, B. . . . A289 (1990) 35
Mana, C., see Adeva, B. . . . A289 (1990) 335
Mana, C., see Adeva, B. . . . A290 (1990) 115
Manabe, A., see Tanaka, M. . . . A284 (1989) 296
Mandelbaum, B., see Ben-Zvi, I. . . . A287 (1990) 93
Mandrillon, P. and R. Ostojic, Magnetic field control and orbit studies for H^- acceleration in a 65 MeV cyclotron . . . A285 (1989) 395
Mandrillon, P., see Ostojic, R. . . . A288 (1990) 339
Mandrou, P., see Agnetta, G. . . . A281 (1989) 197
Manente, G. and R. Pengo, Preparation by rolling of thin cadmium and tin foils and cadmium/lead and tin/lead bonded targets . . . A282 (1989) 140
Manfredi, P.F., see Bonetti, S. . . . A286 (1989) 135
Manfredi, P.F., see Gatti, E. . . . A287 (1990) 513
Manfredi, P.F., see Buttler, W. . . . A288 (1990) 140
Manfredi, P.F., see Strüder, L. . . . A288 (1990) 227
Manfredi, P.F., see Demicheli, M. . . . A289 (1990) 418
Manfredi, P.F., see Aulchenko, V.M. . . . A289 (1990) 468
Manfredi, P.F., see Nava, F. . . . A290 (1990) 457
Manfredotti, C., A. Zanini, S. Rollet and G. Arman, Simulation and test of a new albedo personal dosimeter for neutrons . . . A284 (1989) 464
Manfredotti, C., G. Gervino, E. Bagnolatti, A. Gabutti, M. Boero and E. Monticone, Construction and performance of diffused and ion-implanted silicon microstrip detectors . . . A286 (1989) 238
Manglunki, D., see Poth, H. . . . A287 (1990) 328
Mango, S., see Van den Brandt, B. . . . A289 (1990) 526
Mango, S., see Beverini, N. . . . A289 (1990) 532
Manh, P.T., see Bradaschia, C. . . . A289 (1990) 518
Manheimer, W.M., see Fliflet, A.W. . . . A285 (1989) 233
Manly, S., C. Baltay and M. Kalelkar, Momentum measurements of electrons in a heavy-liquid bubble chamber A290 (1990) 393
Manna, F., see Adeva, B. . . . A289 (1990) 35
Manninen, S., K. Hämäläinen, J.R. Schneider, A.J. Rollason and W. Drube, Compton scattering of 141 keV X-rays from 1s-electrons of silver: a synchrotron radiation experiment . . . A290 (1990) 242
Mannocchi, G., see Antonelli, A. . . . A281 (1989) 589
Mannocchi, G., see Bagliesi, G. . . . A286 (1989) 61
Mannocchi, G., see Anelli, M. . . . A289 (1990) 294
Mansoulie, B., see Aubert, B. . . . A286 (1989) 147
Manto, G., see Adeva, B. . . . A289 (1990) 35
Mantovani, G., see Benvenuti, A.C. . . . A284 (1989) 339
Mantovani, G., see Benvenuti, A.C. . . . A289 (1990) 463
Mantovani, G., see Benvenuti, A.C. . . . A290 (1990) 353
Manuilov, I.V., see Bamburov, N.S. . . . A289 (1990) 265
Mao, H., see Butler, J.M. . . . A290 (1990) 122
Mao, Y.F., see Adeva, B. . . . A289 (1990) 35
Mao, Y.F., see Adeva, B. . . . A289 (1990) 335
Mao, Y.F., see Adeva, B. . . . A290 (1990) 115
Maolinbay, M., see Adeva, B. . . . A289 (1990) 35

March, P., see Bagliesi, G. . . . A286 (1989) 61
Marchesini, P., see Adeva, B. . . . A289 (1990) 35
Marchionni, A., see Adeva, B. . . . A289 (1990) 35
Marck, J.A., see Bradaschia, C. . . . A289 (1990) 518
Marechal, M.H.H., see Iwahara, A. . . . A286 (1989) 370
Marel, G., see Dejardin, M. . . . A283 (1989) 484
Marigo, S., see Fortuna, G. . . . A287 (1990) 253
Marigo, S., see Pengo, R. . . . A287 (1990) 309
Marin, A., see Zhou, B. . . . A287 (1990) 439
Marinescu, L., V. Zoran, S. Dobrescu, G. Pascovici, G. Semenescu, G. Marmureanu, H. Sandi and T. Sireteanu, A concept for earthquake protection of the Bucharest tandem accelerator . . . A287 (1990) 127
Marini, A., see Allaby, J.V. . . . A281 (1989) 291
Marioli, D. and P. Massetti, Time-variant processor with 10 ns weighting function width for Si detector signal processing . . . A287 (1990) 527
Marioli, D., see Antinori, F. . . . A288 (1990) 82
Mariscotti, M., see E-802 Collaboration . . . A290 (1990) 41
Markakis, J.M. and A.Y. Cheng, Comparison of transparent conducting electrodes on mercuric iodide photocells . . . A283 (1989) 236
Markevich, N. and I. Gertner, Comparison among methods for calculating FWHM . . . A283 (1989) 72
Markovich, P., see Den Hartog, P.K. . . . A287 (1990) 235
Markowitz, P., see Bonin, B. . . . A288 (1990) 379
Markowitz, P., see Bonin, B. . . . A288 (1990) 389
Markwalder, M., see Adeva, B. . . . A289 (1990) 35
Marlow, K.W., see Scott, H.L. . . . A286 (1989) 549
Marmouget, J.G., see Dei-Cas, R. . . . A285 (1989) 320
Marmureanu, G., see Marinescu, L. . . . A287 (1990) 127
Marr, G.V., see Hu, X.M. . . . A283 (1989) 57
Marradi, L., see Anderson, B.E. . . . A283 (1989) 650
Marraud, A., see Bradaschia, C. . . . A289 (1990) 518
Marrocchesi, P.S., see Amendolia, S.R. . . . A283 (1989) 573
Marrocchesi, P.S., see Barczewski, T. . . . A289 (1990) 176
Marrocchesi, P.S., see Amendolia, S.R. . . . A289 (1990) 569
Marsaudon, J.C., see Lutz, J.R. . . . A287 (1990) 166
Marsden, P., see Adeva, B. . . . A289 (1990) 35
Marsden, P.K., see Bateman, J.E. . . . A283 (1989) 436
Marsden, R., see Afonin, V.V. . . . A290 (1990) 223
Marsden, R.G., V.V. Afonin, A. Balazs, G. Erdös, J.P.G. Henrion, A.K. Richter, P. Rusznyak, A. Somogyi, S. Szalai, A. Varga, L. Varhalmi, K.-P. Wenzel and M. Witte, The Phobos low energy telescope charged particle experiment . . . A290 (1990) 211
Marsh, J.S., see Allaby, J.V. . . . A281 (1989) 291
Marshall, G.M., see ASTERIX Collaboration . . . A286 (1989) 76
Marshall, T., see Butler, J.M. . . . A290 (1990) 122
Marshall, T.C., see Bhattacharjee, A. . . . A285 (1989) 158
Martellotti, G., see Angelini, C. . . . A281 (1989) 50
Martellotti, G., see WA84 Collaboration . . . A289 (1990) 342
Martellotti, G., see WA84 Collaboration . . . A289 (1990) 356
Martemyanov, A.N., see Beda, A.G. . . . A284 (1989) 77
Martí, G., see Huck, H. . . . A283 (1989) 1
Martin, A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Martin, J., see ZEUS Calorimeter Group . . . A289 (1990) 115
Martin, J., see ZEUS Calorimeter Group . . . A290 (1990) 95
Martin, J.P., see Adeva, B. . . . A289 (1990) 35
Martin, L.J., see Burns, P.A. . . . A286 (1989) 480
Martin, N.C., see ZEUS-UK Collaboration . . . A283 (1989) 477
Martin, P., see Butler, J.M. . . . A290 (1990) 122
Martin, R.H. and J.G.V. Taylor, A measurement of the half-life of ^{137}Cs . . . A286 (1989) 507
Martin Sanchez, A., see Bland, C.J. . . . A286 (1989) 375
Martinelli, R., see Bacci, C. . . . A284 (1989) 536
Martinengo, P., see Chesi, E. . . . A283 (1989) 602
Martinez, J., see Aston, D. . . . A283 (1989) 582
Martinez, J., see Aston, D. . . . A283 (1989) 590

Martinez, L., see Adeva, B. . . . A289 (1990) 35
Martinez, L., see Adeva, B. . . . A289 (1990) 335
Martinez, L., see Adeva, B. . . . A290 (1990) 115
Martini, A., see Bacilieri, P. . . . A289 (1990) 610
Martins, J.C., see Correia, C.M.B.A. . . . A290 (1990) 445
Martoff, C.J., see Young, B.A. . . . A288 (1990) 119
Martyn, H.U., see Adeva, B. . . . A289 (1990) 35
Maruyama, K., see Kato, S. . . . A290 (1990) 315
Maruyama, T., see Allaby, J.V. . . . A281 (1989) 291
Maruyama, X.K., see Luna, H.B. . . . A285 (1989) 349
Marzano, F., see Adeva, B. . . . A289 (1990) 35
Marzullo, V., see Adeva, B. . . . A289 (1990) 35
Mas, J., see Brand, C. . . . A283 (1989) 567
Masaike, A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Mascarenhas, S., see Cruvinel, P.E. . . . A287 (1990) 580
Maschuw, R., see Bodmann, B. . . . A286 (1989) 214
Maschuw, R., see Drexlin, G. . . . A289 (1990) 490
Masciocchi, F., see Adeva, B. . . . A289 (1990) 35
Masek, J., C. Maissen, H. Zogg, W. Platz, H. Riedel, M. Königer, A. Lambrecht and M. Tacke, Photovoltaic lead-chalcogenide IR-sensor arrays on Si for thermal imaging applications . . . A288 (1990) 104
Mashiko, K., see Kawarasaki, Y. . . . A285 (1989) 338
Maslova, L.V., see Zelenina, N.K. . . . A283 (1989) 274
Masnou, J.L., see Agnetta, G. . . . A281 (1989) 197
Mason, P., see Beck, G.A. . . . A283 (1989) 471
Mason, P., see Grässler, H. . . . A283 (1989) 622
Massa, F., see Bertino, M. . . . A283 (1989) 654
Massai, M.M., see Angelini, F. . . . A283 (1989) 423
Massai, M.M., see Angelini, F. . . . A283 (1989) 755
Massam, T., see Beuville, E. . . . A288 (1990) 68
Massaro, E., see Agnetta, G. . . . A281 (1989) 197
Massaro, G.G.G., see Adeva, B. . . . A289 (1990) 35
Massaro, G.G.G., see Adeva, B. . . . A289 (1990) 335
Massaro, G.G.G., see Adeva, B. . . . A290 (1990) 115
Massetti, P., see Marioli, D. . . . A287 (1990) 527
Massoletti, D.J., see Fowler, M.M. . . . A281 (1989) 517
Masson, S., see Grässler, H. . . . A283 (1989) 622
Massonnet, L., see Adeva, B. . . . A289 (1990) 35
Mast, H., R. Eykens, J. Pauwels and C. Wagemans, ^{243}Am targets for nuclear fission experiments: requirements and realisation . . . A282 (1989) 107
Mastin, G.A. and T.W.L. Sanford, Digital image processing diagnostics for the HELIA and HERMES III accelerators . . . A286 (1989) 9
Mastop, W.J., see Van Amersfoort, P.W. . . . A285 (1989) 67
Mastrogiacomo, A., see Bagliesi, G. . . . A286 (1989) 61
Masuda, H., see Kitagaki, T. . . . A281 (1989) 81
Masuda, K., see Kashiwagi, T. . . . A290 (1990) 579
Mathis, L., see Brand, C. . . . A283 (1989) 567
Mathys, L., see Aston, D. . . . A283 (1989) 582
Mathys, L., see Aston, D. . . . A283 (1989) 590
Matis, H.S., see Auerbach, L. . . . A287 (1990) 378
Matis, H.S., see Yegneswaran, A. . . . A290 (1990) 61
Matl, K., see Steck, M. . . . A287 (1990) 324
Matoba, M., see Koori, N. . . . A281 (1989) 243
Matoba, M., see Urase, K. . . . A290 (1990) 401
Matone, G., see Thorn, C.E. . . . A285 (1989) 447
Matone, G., see Dowell, D.H. . . . A286 (1989) 183
Matson, R.M., see Carter, A.A. . . . A286 (1989) 107
Matsuda, T., see Adeva, B. . . . A289 (1990) 35
Matsui, S., H. Inoue and Y. Yoshizawa, Gamma-ray energy measurement for ^{177m}Lu with a precision pulser . . . A281 (1989) 568
Matsuyama, Y., see Akei, M. . . . A283 (1989) 46
Mattern, D., see LAA-LAD Group . . . A289 (1990) 351

Mattern, N. and B.P. Tolotschko, High-temperature diffraction investigations on metallic glasses by means of synchrotron radiation A282 (1989) 592
Matthews, J., see Adolphsen, C. A288 (1990) 257
Matthews, J., see Carithers, W.C. A289 (1990) 388
Matthews, J.A.J., see Abrams, G. A281 (1989) 55
Matthews, M.T., see Beck, G.A. A283 (1989) 471
Mattison, T., see Abrams, G. A281 (1989) 55
Mattison, T., see Bambade, P. A290 (1990) 11
Matulenko, Yu.A., see FNAL-E581/704 Collaboration A290 (1990) 269
Matulewicz, T., E. Grosse, H. Emling, R. Freifelder, H. Grein, W. Henning, N. Herrmann, R. Holzmann, R. Kulessa, R.S. Simon, H.J. Wollersheim, B. Schoch, J. Vogt, M. Wilhelm, J.V. Kratz, R. Schmidt and R.V.F. Janssens, Response of BaF_2 detectors to photons of 3–50 MeV energy A289 (1990) 194
Matveev, O.A., see Agrinskaya, N.V. A283 (1989) 263
Matveev, O.A., see Zelenina, N.K. A283 (1989) 274
Matveev, O.A., see Zelenina, N.K. A283 (1989) 279
Matveev, Yu.G., see Anashin, V.V. A282 (1989) 386
Matvejev, Yu.G., see Anashin, V.V. A282 (1989) 369
Maurel, M., see AMORPHA Collaboration A281 (1989) 528
Maurelli, G., see Adeva, B. A289 (1990) 35
Maxfield, S.J., see Beck, G.A. A283 (1989) 471
Maxfield, S.J., see Grässler, H. A283 (1989) 622
May, B., see ASTERIX Collaboration A286 (1989) 76
May, J., see Amendolia, S.R. A283 (1989) 573
May, J., see Barczewski, T. A289 (1990) 176
Mayer, B., see Bonin, B. A288 (1990) 389
Mayer, B., see Bonin, B. A288 (1990) 379
Mayer, R.E., J.R. Granada, V.H. Gillette and J. Dawidowski, High efficiency moderator for pulsed neutron diffraction A288 (1990) 467
Mayergoyz, I.D., see Booske, J.H. A285 (1989) 92
Mayers, J., Contribution of inelastic scattering to the vanadium differential scattering cross section; implications for the calibration of neutron spectrometers (*Letter to the Editor*) A281 (1989) 654
Mayet, N., see Van Apeldoorn, G. A283 (1989) 767
Mazaheri, G., see Adler, J. A283 (1989) 679
Mazumdar, K., see Adeva, B. A289 (1990) 35
Mazurenko, S.N., see Kulipanov, G.N. A282 (1989) 590
Mazurenko, S.N., see Lider, V.V. A282 (1989) 632
Mazzone, F., see De Angelis, A. A287 (1990) 397
Mazzucato, M., see Lippi, I. A286 (1989) 243
Mazzuccato, M., see Dijkstra, H. A289 (1990) 400
McArthur, I., see ZEUS-UK Collaboration A283 (1989) 477
McBride, P., see Adeva, B. A289 (1990) 35
McBride, P., see Adeva, B. A289 (1990) 335
McBride, P., see Adeva, B. A290 (1990) 115
McCarthy, K.J. and J. Fryar, Sensitivities for contrast agent imaging in CT scans using single energy synchrotron radiation A287 (1990) 613
McConchie, L., see Farrell, R. A288 (1990) 137
McConnell, J.W., see Dickens, J.K. A281 (1989) 577
McCowan, R.B., see Fliflet, A.W. A285 (1989) 233
McCubbin, N.A., see ZEUS-UK Collaboration A283 (1989) 477
McDonald, A.B., see Coulter, K.P. A288 (1990) 463
McEwen, J.G., see Angelini, C. A281 (1989) 50
McEwen, J.G., see WA84 Collaboration A289 (1990) 342
McEwen, J.G., see WA84 Collaboration A289 (1990) 356
McGill, J.A., see Akei, M. A283 (1989) 46
McHugh, S., see Aston, D. A283 (1989) 582
McHugh, S., see Aston, D. A283 (1989) 590
McKemey, A., see Bagliesi, G. A286 (1989) 61
McKemey, A., see Damerell, C.J.S. A288 (1990) 236
McKenna, J.A., see Abrams, G. A281 (1989) 55
McKenna-Lawlor, S., V.V. Afonin, K.I. Gringauz, E. Keppler, E. Kirsch, A. Richter, M. Witte, D. O'Sullivan, A. Thompson, A.J. Somogyi, L. Szabo and A. Varga, The low energy particle detector SLED (~ 30 keV–3.2 MeV) and its performance on the Phobos Mission to Mars and its moons A290 (1990) 217

McKenna-Lawlor, S., see Afonin, V.V. . . . A290 (1990) 223
McMullin, W.A., see Bhowmik, A. . . . A281 (1989) 224
McMurray, W.R., K. Bharuth-Ram and D.G. Aschman, A particle spectrometer for angular distribution measurements from (n, p) and (n, d) reactions at 22 MeV . . . A288 (1990) 421
McMurry, D.E., see Walling, L.S. . . . A281 (1989) 433
McPherson, A., see Carter, J.R. . . . A286 (1989) 99
McPherson, G.M., see Lewis, J. . . . A288 (1990) 197
McQuillan, D., see ZEUS-UK Collaboration . . . A283 (1989) 477
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McVey, B.D., see Goldstein, J.C. . . . A285 (1989) 192
McVittie, J.P., see Young, B.A. . . . A288 (1990) 119
Meadows, B., see Aston, D. . . . A283 (1989) 582
Meadows, B., see Aston, D. . . . A283 (1989) 590
Medcalf, T., see Bagliesi, G. . . . A286 (1989) 61
Meddens, B.J.H., see Van Amersfoort, P.W. . . . A285 (1989) 67
Medici, G., see Adeva, B. . . . A289 (1990) 35
Medici, G., see Bacilieri, P. . . . A289 (1990) 610
Medvedko, A.S., see Anashin, V.V. . . . A282 (1989) 386
Medvedko, A.S., see Anashin, V.V. . . . A282 (1989) 369
Medvedkov, A.M., see Bamburov, N.S. . . . A289 (1990) 265
Mehmood, G., see Semkow, T.M. . . . A290 (1990) 437
Mehta, D., see Chand, B. . . . A284 (1989) 393
Mehta, G.K., Status of NSC Pelletron Laboratory . . . A287 (1990) 31
Meier, H., see Adeva, B. . . . A289 (1990) 35
Meier, M., see Strüder, L. . . . A288 (1990) 227
Meier, M.M., see Amian, W.B. . . . A281 (1989) 353
Meigs, M.J., see Jones, C.M. . . . A287 (1990) 68
Meinholz, Th., see Adeva, B. . . . A289 (1990) 35
Meissner, J., see Bärwolff, H. . . . A283 (1989) 467
Melchior, H., see Mittelholzer, M. . . . A288 (1990) 110
Mellet, J. and A. Friant, $I(t)$, $I(V)$ and surface effect studies of vapor grown and solution grown HgI_2 detectors . . . A283 (1989) 199
Mellet, J., see Friant, A. . . . A283 (1989) 227
Melnikova, R.D., see Kolmogorov, Yu.P. . . . A282 (1989) 692
Mendiburu, J.P., see Aubert, B. . . . A286 (1989) 147
Meneguzzo, A.T., see Bacci, C. . . . A284 (1989) 536
Menet, J., see Blanc, R. . . . A282 (1989) 136
Meng, W., see Krienen, F. . . . A283 (1989) 5
Menon, M.G.K., see Adarkar, H. . . . A284 (1989) 422
Menzione, A., see Carithers, W.C. . . . A289 (1990) 388
Menzione, A., see Amendolia, S.R. . . . A289 (1990) 539
Meot, F., see Moalem, A. . . . A289 (1990) 168
Mercure, P., see Bultena, S. . . . A286 (1989) 317
Merk, M., see Adeva, B. . . . A289 (1990) 35
Mermod, R., see Adeva, B. . . . A289 (1990) 35
Merola, L., see Adeva, B. . . . A289 (1990) 35
Merola, L., see Adeva, B. . . . A289 (1990) 335
Merola, L., see Adeva, B. . . . A290 (1990) 115
Meroni, C., see Antinori, F. . . . A288 (1990) 82
Meroni, C., see Dijkstra, H. . . . A289 (1990) 400
Meroni, E., see Bonetti, S. . . . A286 (1989) 135
Meschanin, A.P., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Meschini, M., see Adeva, B. . . . A289 (1990) 35
Messineo, A., see Bagliesi, G. . . . A286 (1989) 61
Messner, R.L., see Allaby, J.V. . . . A281 (1989) 291
Messner, R.L., see Benvenuti, A.C. . . . A284 (1989) 339
Messner, R.L., see SLD-WIC Collaboration . . . A289 (1990) 449
Messner, R.L., see Benvenuti, A.C. . . . A289 (1990) 463
Messner, R.L., see Benvenuti, A. . . . A289 (1990) 577
Messner, R.L., see Benvenuti, A.C. . . . A290 (1990) 353

Mészáros, L.P., see Barabash, L.S. . . . A288 (1990) 375
Metzger, W.J., see Adeva, B. . . . A289 (1990) 35
Meyer, C.A., see Egli, S. . . . A283 (1989) 487
Meyer, F., see Hohlweck, M. . . . A281 (1989) 277
Meyer, H.O., see Solberg, K. . . . A281 (1989) 283
Meyer, J.-P., see Alitti, J. . . . A283 (1989) 646
Meyer, O.A., see Allaby, J.V. . . . A281 (1989) 291
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Meyer, W., see Lambrecht, R.M. . . . A282 (1989) 296
Mezentsev, N.A., see Anashin, V.V. . . . A282 (1989) 386
Mezentsev, N.A., see Baryshev, V.B. . . . A282 (1989) 570
Miah, M.A., J.W. Mitchell and J.P. Wefel, Magnetospheric particle detection efficiency of a conical telescope . . A281 (1989) 622
Miake, Y., see E-802 Collaboration . . . A290 (1990) 41
Michalke, A., see Chaloupka, H. . . . A285 (1989) 327
Michalon, A., see Garabatos, C. . . . A283 (1989) 553
Michalon, A., see Cherney, M. . . . A283 (1989) 796
Michalon-Mentzer, M.E., see Garabatos, C. . . . A283 (1989) 553
Michalon-Mentzer, M.E., see Cherney, M. . . . A283 (1989) 796
Michalowicz, A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Michalowski, S.J., see Allaby, J.V. . . . A281 (1989) 291
Michel, E., W. Schmidt-Parzefall, R.D. Appuhn, J. Buchmüller, H. Kolanoski, B. Kreimeier, A. Lange, T. Siegmund, A. Walther, K.W. Edwards, R.C. Fernholz, H. Kapitza, D.B. MacFarlane, M. O'Neill, J.A. Parsons, J.D. Prentice, S.C. Seidel, G. Tsipolitis, S. Ball, A. Babaev, M. Danilov and I. Tichomirov, The ARGUS microvertex drift chamber . . . A283 (1989) 544
Michielsen, A.J. and P. Decowski, Silicon targets . . . A282 (1989) 121
Micke, M., see Adeva, B. . . . A289 (1990) 35
Micke, U., see Adeva, B. . . . A289 (1990) 35
Miettinen, H.E., see Etkin, A. . . . A283 (1989) 557
Migneco, E., see Bellia, G. . . . A284 (1989) 399
Mikaelian, R.A., see Karabekov, I.P. . . . A282 (1989) 638
Mikaelian, R.A., see Karabekov, I.P. . . . A282 (1989) 640
Mikaelian, R.A., see Karabekov, I.P. . . . A282 (1989) 642
Mikenberg, G., see Beard, C. . . . A286 (1989) 117
Mikhailin, V.V., see Kamenskikh, I.A. . . . A282 (1989) 599
Mikhailin, V.V. and M.A. Terekhin, Luminescence excitation of barium fluorohalides by using synchrotron radiation . . . A282 (1989) 607
Mikhailin, V.V., see Belskiy, A.N. . . . A282 (1989) 610
Mikhailin, V.V., see Kolobanov, V.N. . . . A282 (1989) 619
Mikhailin, V.V., see Belskiy, A.N. . . . A282 (1989) 625
Mikhailov, M.A., see Kulipanov, G.N. . . . A282 (1989) 590
Mikhailov, S.F., see Gavrilov, N.G. . . . A282 (1989) 422
Mikhin, A.G., see Avaev, A.V. . . . A282 (1989) 398
Milano, L., see Bradaschia, C. . . . A289 (1990) 518
Milborrow, R.S., see Carter, A.A. . . . A286 (1989) 107
Mildner, D.F.R., Acceptance diagrams for curved neutron guides . . . A290 (1990) 189
Mildner, D.F.R., Comments on "Design optimization of a small-angle neutron scattering spectrometer" (*Letter to the Editor*) . . . A290 (1990) 259
Miller, C.A., see Henderson, R.S. . . . A286 (1989) 41
Miller, D., see Yegneswaran, A. . . . A290 (1990) 61
Miller, D.B., see ZEUS-UK Collaboration . . . A283 (1989) 477
Miller, D.B., see Aderholz, M. . . . A284 (1989) 311
Miller, D.H., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Miller, D.J., see Imrie, D.C. . . . A283 (1989) 515
Miller, D.J., see Anderson, B.E. . . . A283 (1989) 650
Miller, W.R., E.E. Hughes and B.M. Coursey, Development of a stable tritium (HT) generation system for testing atmospheric HT monitors . . . A286 (1989) 334
Milliken, B.D., see Abrams, G. . . . A281 (1989) 55
Mills, G.B., see L3 Collaboration . . . A285 (1989) 403
Mills, G.B., see Adeva, B. . . . A289 (1990) 35
Mills, J.B., see L3 Collaboration . . . A288 (1990) 364

Milotti, E., see Amendolia, S.R. . . . A283 (1989) 573
Milotti, E., see Barczewski, T. . . . A289 (1990) 176
Milstein, F., see Schieber, M. . . . A283 (1989) 172
Milstein, F., see Georgeson, G. . . . A285 (1989) 488
Milstein, F., T.W. James and G. Georgeson, Microhardness and microstructure in single crystals of mercuric iodide . . . A285 (1989) 500
Milstein, F., see Georgeson, G. . . . A285 (1989) 507
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Minakawa, F., see Kodama, K. . . . A289 (1990) 146
Minard, M.N., see Bagliesi, G. . . . A286 (1989) 61
Mineo, T., see Agnetta, G. . . . A281 (1989) 197
Mingxiu, M., K.G. Stephens, B.J. Sealy and J.E. Mynard, The determination of the geometric parameters of the extraction system in an rf ion source . . . A288 (1990) 303
Minor, E.D., see Armstrong, T.A. . . . A289 (1990) 109
Minorikawa, Y., see Mitsui, K. . . . A290 (1990) 565
Minten, A., see Amendolia, S.R. . . . A283 (1989) 573
Minten, A., see Barczewski, T. . . . A289 (1990) 176
Mir, R., see Adler, J. . . . A283 (1989) 679
Mirabelli, G., see Bacilieri, P. . . . A289 (1990) 610
Miscetti, S., see Bertolucci, S. . . . A289 (1990) 375
Mistry, N.B., see Katayama, N. . . . A283 (1989) 539
Mitchell, J., see ZEUS Calorimeter Group . . . A290 (1990) 95
Mitchell, J.W., see Miah, M.A. . . . A281 (1989) 622
Mitra, A.K., see Bongardt, K. . . . A287 (1990) 273
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Mittig, W., see Villari, A.C.C. . . . A281 (1989) 240
Miura, K., see Niizeki, T. . . . A287 (1990) 455
Miyachi, T., see Kato, S. . . . A287 (1990) 499
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Miyake, K., see Hemmi, Y. . . . A281 (1989) 462
Miyake, K., see Yamashita, T. . . . A283 (1989) 709
Miyake, K., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Miyake, S., see Adarkar, H. . . . A284 (1989) 422
Miyanishi, M., see Kodama, K. . . . A289 (1990) 146
Miyata, H., see Fujii, Y. . . . A283 (1989) 665
Miyoshi, S., see Cho, T. . . . A289 (1990) 317
Mizumachi, Y., see Hiramatsu, S. . . . A285 (1989) 83
Mizumoto, M., see Chiba, S. . . . A281 (1989) 581
Mizumoto, M. and M. Sugimoto, The influence of water absorption in samples for neutron capture cross section measurements . . . A282 (1989) 324
Mizutani, K., see Nishizawa, M. . . . A285 (1989) 532
Mizutani, K., see Amenomori, M. . . . A288 (1990) 619
Mjörnmark, U., see Brand, C. . . . A283 (1989) 567
Mnich, J., see Adeva, B. . . . A289 (1990) 35
Mo, G.-H., see Hungerford, D. . . . A286 (1989) 155
Moalem, A., F. Meot, G. Leleux, J.P. Penicaud, A. Tkatchenko and P. Birien, A modified QDD spectrometer for η meson decay measurements . . . A289 (1990) 168
Mobayyen, M.M., see ZEUS-UK Collaboration . . . A283 (1989) 477
Mocheshnikov, N.I., see Boldyshev, V.P. . . . A282 (1989) 390

Mockett, P.M., A novel segmentation for charge sampling calorimeters . . . A289 (1990) 139
Moeller, M., see Adeva, B. . . . A289 (1990) 35
Moffeit, K.C., see Abrams, G. . . . A281 (1989) 55
Mohapatra, R.N., Neutron–antineutron oscillation in grand unified theories: an update . . . A284 (1989) 1
Möhl, D., see Poth, H. . . . A287 (1990) 328
Möhlenkamp, Th., see Schmidt-Ott, W.-D. . . . A285 (1989) 459
Mohr, W., see Fischer, H.M. . . . A283 (1989) 492
Mohsen, M. and F. Pleiter, Comparative studies of time differential and integral directional correlation methods on delayed γ-ray cascades . . . A287 (1990) 506
Moisio, M.F., see Fortuna, G. . . . A287 (1990) 253
Moisio, M.F., see Dainelli, A. . . . A287 (1990) 279
Mokhov, N., see Butler, J.M. . . . A290 (1990) 122
Mokhtarani, A., see Kodama, K. . . . A289 (1990) 146
Molinero, A., see Alcaraz, J. . . . A284 (1989) 303
Molinero, A., see Adeva, B. . . . A289 (1990) 35
Mollimard, D., see Blondiaux, G. . . . A287 (1990) 125
Molnar, L., see Astakhov, A.Ya. . . . A283 (1989) 13
Mondal, N.K., see Adarkar, H. . . . A284 (1989) 422
Mongelli, M., see Vasileiadis, G. . . . A289 (1990) 618
Moning, R., see Borer, K. . . . A286 (1989) 128
Monkenbusch, M., On solenoid design for neutron spin echo spectrometers . . . A287 (1990) 465
Monnand, E., see AMORPHA Collaboration . . . A281 (1989) 528
Montaigne, M., see Potvin, L. . . . A281 (1989) 359
Montanet, L., see Adeva, B. . . . A289 (1990) 35
Montelatici, V., see Bradaschia, C. . . . A289 (1990) 518
Monteleoni, B., see Adeva, B. . . . A289 (1990) 35
Monticone, E., see Manfredotti, C. . . . A286 (1989) 238
Montino, R., see Adeva, B. . . . A289 (1990) 35
Moore, C.D., see Huth, J. . . . A281 (1989) 485
Moore, G.T. and J.C. Goldstein, Chirping for efficiency enhancement of the free electron laser . . . A285 (1989) 176
Morand, C., see Benrachi, F. . . . A281 (1989) 137
Morand, C., see AMORPHA Collaboration . . . A281 (1989) 528
Morand, G., see Adeva, B. . . . A289 (1990) 35
Morand, R., see Adeva, B. . . . A289 (1990) 35
Morcos, S., see Allaby, J.V. . . . A281 (1989) 291
Mordhorst, S., see Finsel, G. . . . A290 (1990) 450
Moreels, J., see Aderholz, M. . . . A284 (1989) 311
Moreira, P. and G. Polesello, The missing transverse momentum trigger electronics of UA2 . . . A287 (1990) 417
Morel, C., see UA6 Collaboration . . . A286 (1989) 49
Moretto, L.G., see Pantaleo, A. . . . A286 (1989) 230
Morgado, C., see ZEUS-UK Collaboration . . . A283 (1989) 477
Morgan, S., see Burger, A. . . . A283 (1989) 130
Morganti, M., see Bosi, F. . . . A283 (1989) 532
Morganti, S., see Adeva, B. . . . A289 (1990) 35
Morgunov, L.G., see Anashin, V.V. . . . A282 (1989) 386
Morgunov, V., see L3 Collaboration . . . A285 (1989) 403
Morgunov, V., see Adeva, B. . . . A289 (1990) 35
Morii, M.M., see Hemmi, Y. . . . A281 (1989) 462
Morii, M.M., see Yamashita, T. . . . A283 (1989) 709
Morita, T., see Kato, S. . . . A290 (1990) 315
Morita, Y., see Kitagaki, T. . . . A281 (1989) 81
Moriyama, K., see Kodama, K. . . . A289 (1990) 146
Morlet, M., see Bonin, B. . . . A288 (1990) 379
Morlet, M., see Bonin, B. . . . A288 (1990) 389
Moromisato, J.H., see Allaby, J.V. . . . A281 (1989) 291
Moroney, J.R., see Burns, P.A. . . . A286 (1989) 480
Morosov, A.A., see Erin, S.V. . . . A283 (1989) 682
Morozov, O.Yu., see Anevsky, S.I. . . . A282 (1989) 714
Morozov, V.I., Neutron lifetime determination by ultracold neutron storage . . . A284 (1989) 108
Morris, T.W., see Etkin, A. . . . A283 (1989) 557
Morrison, D.R.O., see Angelini, C. . . . A281 (1989) 50

Morrison, D.R.O., see Aderholz, M. . . . A284 (1989) 311
Morrison, D.R.O., see WA84 Collaboration . . . A289 (1990) 342
Morrison, D.R.O., see WA84 Collaboration . . . A289 (1990) 356
Morrison, R., see Aston, D. . . . A283 (1989) 582
Morrison, R., see Aston, D. . . . A283 (1989) 590
Morrissey, M., see Bagliesi, G. . . . A286 (1989) 61
Morrissey, M.C., see Lewis, J. . . . A288 (1990) 197
Morsani, F., see Amendolia, S.R. . . . A289 (1990) 539
Morse, R.J., see E-802 Collaboration . . . A290 (1990) 41
Morse, R.M., see Allaby, J.V. . . . A281 (1989) 291
Morton, J.M., see Beck, G.A. . . . A283 (1989) 471
Morton, J.M., see Grässler, H. . . . A283 (1989) 622
Möschen, J., A. Caldwell, L. Hervas, B. Hosticka, U. Kötz and B. Sippach, High-speed analog CMOS pipeline system . . . A288 (1990) 180
Moschini, G., see Cherubini, R. . . . A281 (1989) 349
Moser, P., see Nicolau, Y.F. . . . A283 (1989) 167
Mosquera, J., see Garabatos, C. . . . A283 (1989) 553
Mosquera, J., see Cherney, M. . . . A283 (1989) 796
Moss, C.E., see Amian, W.B. . . . A281 (1989) 353
Moss, L.J., see Allaby, J.V. . . . A281 (1989) 291
Mostovoii, Yu.A., see Beda, A.G. . . . A284 (1989) 77
Mostovoii, Yu.A., see Vorobiov, A.V. . . . A284 (1989) 127
Moszyński, M., see Białkowski, J. . . . A281 (1989) 657
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Motobayashi, T., see Kubota, S. . . . A285 (1989) 436
Mouchel, D., see Bortels, G. . . . A286 (1989) 429
Mouly, J.P., see Bonin, B. . . . A288 (1990) 379
Mouly, J.P., see Bonin, B. . . . A288 (1990) 389
Mount, R., see Adeva, B. . . . A289 (1990) 35
Mouton, B., see Ortega, J.M. . . . A285 (1989) 97
Mouze, G., see Diallo, O. . . . A286 (1989) 379
Movchan, S.A., see Zanevsky, Yu.V. . . . A283 (1989) 462
Moy, L., see Squillante, M.R. . . . A288 (1990) 79
Moy, L.P., see Lund, J.C. . . . A283 (1989) 299
Moynot, M., see Adeva, B. . . . A289 (1990) 35
Muehlner, D.J., see Ripamonti, G. . . . A288 (1990) 99
Mueller, A.C., see Bazin, D. . . . A281 (1989) 117
Mueller, E.R., A simple method to measure wire tensions in multiwire chambers (*Letter to the Editor*) . . . A281 (1989) 652
Mugnier, P., see Adeva, B. . . . A289 (1990) 35
Mühleck, C., see Ruster, W. . . . A281 (1989) 547
Mukoyama, S., see Ozaki, M. . . . A284 (1989) 286
Mulera, T., see Yegneswaran, A. . . . A290 (1990) 61
Mullen, P.A., see Coursey, B.M. . . . A290 (1990) 537
Müller, A., Targets consisting of free charged particles . . . A282 (1989) 80
Muller, C., see Rebmeister, R. . . . A287 (1990) 150
Muller, C., see Lutz, J.R. . . . A287 (1990) 166
Muller, Ch., see Nadji, A. . . . A287 (1990) 173
Muller, F., see Allaby, J.V. . . . A281 (1989) 291
Muller, F., see Antinori, F. . . . A288 (1990) 82
Müller, H.-W., see Tepel, J.W. . . . A286 (1989) 443
Müller, L., see Abrams, G. . . . A281 (1989) 55
Müller, L., see Borer, K. . . . A286 (1989) 128
Müller, W.F.J., see Kobayashi, T. . . . A284 (1989) 381
Munday, D., see Beuville, E. . . . A288 (1990) 68
Munday, D.J., see Alitti, J. . . . A283 (1989) 646
Munday, D.J., see Ansari, R. . . . A288 (1990) 240
Munger, C.T., see Abrams, G. . . . A281 (1989) 55
Munger, C.T., see Alexander, J.P. . . . A283 (1989) 519
Muñoz, R., see Bonetti, S. . . . A286 (1989) 135
Munson, F.H., see Den Hartog, P.K. . . . A287 (1990) 235

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Münzenberg, G., see Blank, B. . . . A286 (1989) 160
Münzenberg, G., see Geissel, H. . . . A282 (1989) 247
Mur, M., see Brand, C. . . . A283 (1989) 567
Murakami, H., see Kubota, S. . . . A285 (1989) 436
Murakami, H., see Liu, W.P. . . . A287 (1990) 476
Murakami, H., see Kashiwagi, T. . . . A290 (1990) 579
Murakami, T., see Kubota, S. . . . A285 (1989) 436
Muraki, Y., see Mitsui, K. . . . A290 (1990) 565
Muraki, Y., see Kashiwagi, T. . . . A290 (1990) 579
Muranushi, F., see Hemmi, Y. . . . A281 (1989) 462
Murashova, V.A., see Alexandrov, Yu.M. . . . A282 (1989) 551
Murashova, V.A., see Alexandrov, Yu.M. . . . A282 (1989) 716
Murashova, V.A., see Alexandrov, Yu.M. . . . A282 (1989) 725
Murata, Y., see Kato, S. . . . A290 (1990) 315
Muratov, V.V., see Alexandrov, B.M. . . . A288 (1990) 399
Muravyatkin, V.Yu., see Nikitin, M.M. . . . A282 (1989) 481
Murphy, K., see Howell, C.R. . . . A290 (1990) 424
Murphy, M.J., The virtues of positive-definite reconstruction of X-ray and gamma-ray images . . . A290 (1990) 551
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Murray, W.N., see Abrams, G. . . . A281 (1989) 55
Murtas, F., see Antonelli, A. . . . A281 (1989) 589
Murtas, F., see Bagliesi, G. . . . A286 (1989) 61
Murtas, G.P., see Antonelli, A. . . . A281 (1989) 589
Murtas, G.P., see Bagliesi, G. . . . A286 (1989) 61
Murthy, K., see Bultena, S. . . . A286 (1989) 317
Murty, P.S., see Adarkar, H. . . . A284 (1989) 422
Mutchler, G.S., see Etkin, A. . . . A283 (1989) 557
Muto, H., see Sugai, I. . . . A282 (1989) 164
Myalitsin, V.K., see Erin, S.V. . . . A283 (1989) 682
Mynard, J.E., see Mingxiu, M. . . . A288 (1990) 303
Mytnychenko, S.V., see Popov, A.N. . . . A282 (1989) 510

NA36 Collaboration, see Garabatos, C. . . . A283 (1989) 553
NA36 Collaboration, see Cherney, M. . . . A283 (1989) 796
Naaman, R., see Berkovits, D. . . . A281 (1989) 663
Nadji, A., see Rebmeister, R. . . . A287 (1990) 150
Nadji, A., F. Haas, G. Heng, Ch. Muller and R. Rebmeister, The beam emittance of negative ion sources . . . A287 (1990) 173
Nagae, T., see Akei, M. . . . A283 (1989) 46
Nagae, T., see Tanaka, M. . . . A284 (1989) 296
Nagaenko, M.G., see Boldyshev, V.P. . . . A282 (1989) 390
Nagamine, T., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Nagamiya, S., see E-802 Collaboration . . . A290 (1990) 41
Nagaraj, P., see Adarkar, H. . . . A284 (1989) 422
Nagasawa, H., see Akei, M. . . . A283 (1989) 46
Nagaslaev, V.P., see Aulchenko, V.M. . . . A283 (1989) 528
Nägeli, W., see Adeva, B. . . . A289 (1990) 35
Nagoshi, C., see Akei, M. . . . A283 (1989) 46
Nagy, A.F., see Szücs, I.T. . . . A290 (1990) 228
Nagy, E., see Adeva, B. . . . A289 (1990) 35
Nailor, P.R., see Aderholz, M. . . . A284 (1989) 311
Nakae, S., see Koike, M. . . . A290 (1990) 145
Nakagawa, T., see Liu, W.P. . . . A287 (1990) 476
Nakagawa, T., I. Tanihata and K. Yuasa-Nakagawa, Timing properties of a new type time pick-up detector . . . A290 (1990) 136
Nakai, S., see Kitagaki, T. . . . A281 (1989) 81
Nakai, S., see Mima, K. . . . A285 (1989) 47
Nakajima, T., see Kitagaki, T. . . . A281 (1989) 81

Nakamoto, A., see Kashiwagi, T. . . . A290 (1990) 579
Nakamura, I., see Mitsui, K. . . . A290 (1990) 565
Nakamura, K., see Kodama, K. . . . A289 (1990) 146
Nakamura, M., see Tajima, H. . . . A288 (1990) 536
Nakamura, M., see Kodama, K. . . . A289 (1990) 146
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Nakamura, S., see Ichinose, H. . . . A286 (1989) 327
Nakamura, T., see Hemmi, Y. . . . A281 (1989) 462
Nakamura, T., see Adarkar, H. . . . A284 (1989) 422
Nakamura, T.T., see Yamashita, T. . . . A283 (1989) 709
Nakamura, Y., see Kodama, K. . . . A289 (1990) 146
Nakanishi, S., see Tajima, H. . . . A288 (1990) 536
Nakanishi, S., see Kodama, K. . . . A289 (1990) 146
Nakatani, H., E. Sakai, C. Tatsuyama and F. Takeda, GaSe nuclear particle detectors . . . A283 (1989) 303
Nakazawa, K., see Kodama, K. . . . A289 (1990) 146
Nam, S.W., see Kodama, K. . . . A289 (1990) 146
Namboodiri, M.N., see Fowler, M.M. . . . A281 (1989) 517
Nania, R., see LAA-LAD Group . . . A289 (1990) 351
Nanjo, H., see Nishizawa, M. . . . A285 (1989) 532
Nanjo, H., see Amenomori, M. . . . A288 (1990) 619
Naon, R., H. Bjelkhagen, R. Burnstein and L. Voyvodic, A system for viewing holograms . . . A283 (1989) 24
Naoumidis, A. and V. Katselis, A new $^{15}N^{+}$ ion beam source (*Letter to the Editor*) . . . A289 (1990) 325
Napolitano, M., see Adeva, B. . . . A289 (1990) 35
Napolitano, M., see Adeva, B. . . . A289 (1990) 335
Napolitano, M., see Adeva, B. . . . A290 (1990) 115
Nappi, E., see Vasileiadis, G. . . . A289 (1990) 618
Naqvi, A., see Howell, C.R. . . . A290 (1990) 424
Narasimham, V.S., see Adarkar, H. . . . A284 (1989) 422
Nash, J., see Levi, M. . . . A281 (1989) 265
Nash, J., see Abrams, G. . . . A281 (1989) 55
Nash, J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Nash, J., see Boyarski, A. . . . A283 (1989) 617
Nash, J., see Harnew, N. . . . A283 (1989) 781
Natale, G., see Bradaschia, C. . . . A289 (1990) 518
Natali, S., see Bagliesi, G. . . . A286 (1989) 61
Natkaniec, Z., see Garabatos, C. . . . A283 (1989) 553
Natkaniec, Z., see Cherney, M. . . . A283 (1989) 796
Naudet, C., see Yegneswaran, A. . . . A290 (1990) 61
Naumann, T., see Bärwolff, H. . . . A283 (1989) 467
Nava, F., A. Magnani, G. Ottaviani, R. Tonini, A. Alberigi Quaranta, P. Cantoni, P.L. Frabetti, V. Lelli, L. Stagni, P. Lichard, R. Janik, F. Palombo and P.F. Manfredi, Preparation of low-noise high-quality silicon microstrip detectors . . . A290 (1990) 457
Navarria, F.-L., see Bollini, D. . . . A283 (1989) 635
Naviliat-Cuncic, O., M. Loiselet, Z. Seres and J. Vervier, Lifetime measurements with a new doppler shift technique . . . A287 (1990) 487
Neboux, S., see Adeva, B. . . . A289 (1990) 35
Nedorezov, V.G., see Alexandrov, B.M. . . . A288 (1990) 399
Neelin, P., see ZEUS Calorimeter Group . . . A289 (1990) 115
Neff, W., R. Noll, F. Rühl, R. Lebert, C.R. Haas, B. Weikl and G. Herziger, Monochromatic X-ray emission of a fully ionized hydrogen plasma . . . A285 (1989) 253
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Nelson, C., see Carithers, W.C. . . . A289 (1990) 388
Nelson, H.N., see Allaby, J.V. . . . A281 (1989) 291
Nelson, J.M., see Garabatos, C. . . . A283 (1989) 553
Nelson, J.M., see Cherney, M. . . . A283 (1989) 796
Nelson, M.E., see Abrams, G. . . . A281 (1989) 55
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Nesbitt, D., see Yegneswaran, A. . . . A290 (1990) 61
Nesic, D., see Nemethy, P. . . . A283 (1989) 578
Nessi, M., see Etkin, A. . . . A283 (1989) 557
Nessi, M., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Nessi-Tedaldi, F., see Etkin, A. . . . A283 (1989) 557
Nessi-Tedaldi, F., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Nesvizhevsky, V.V., see Kharitonov, A.G. . . . A284 (1989) 98
Netusil, T., see Zanevsky, Yu.V. . . . A283 (1989) 462
Neuffer, D.V., see Walling, L.S. . . . A281 (1989) 433
Neuhauser, B., see Young, B.A. . . . A288 (1990) 119
Neuhofer, G., see Garabatos, C. . . . A283 (1989) 553
Neuhofer, G., see Cherney, M. . . . A283 (1989) 796
Neveu, M., see Aderholz, M. . . . A284 (1989) 311
Nevière, M., see Flamand, J. . . . A282 (1989) 532
Newcomer, F.M., R. Van Berg, J. Van der Spiegel and H.H. Williams, High-speed bipolar integrated circuits for SSC applications . . . A283 (1989) 806
Newman, H., see Ma, H. . . . A281 (1989) 469
Newman, H., see Adeva, B. . . . A289 (1990) 35
Newnam, B.E., see Lumpkin, A.H. . . . A285 (1989) 104
Neyer, Ch., see Adeva, B. . . . A289 (1990) 35
Nguyen, C., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Nguyen, H., see ASTERIX Collaboration . . . A286 (1989) 76
Nguyen, K., see Adeva, B. . . . A289 (1990) 35
Nichols, A.L., X- and gamma-ray standards for detector efficiency calibration . . . A286 (1989) 467
Nichols, W.R., see Kodama, K. . . . A289 (1990) 146
Nickles, R.J., see Votaw, J.R. . . . A281 (1989) 216
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Nicolau, Y.F. and M. Dupuy, Study of α-HgI_2 crystals grown in space by differential scanning calorimetry, scanning cathodoluminescence microscopy and optical microscopy . . . A283 (1989) 355
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Nicoletti, G., see Bagliesi, G. . . . A286 (1989) 61
Nicoletto, M., see Bacci, C. . . . A284 (1989) 536
Niczyporuk, B.B., see Hanson, G.G. . . . A283 (1989) 735
Niedrais, H., see Stankevich, V.G. . . . A282 (1989) 684
Niel, M., see Agnetta, G. . . . A281 (1989) 197
Nierobisch, H., see Grässler, H. . . . A283 (1989) 622
Niessen, L., see Adeva, B. . . . A289 (1990) 35
Nifenecker, H., see AMORPHA Collaboration . . . A281 (1989) 528
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Niki, K., see Kato, S. . . . A290 (1990) 315
Nikitin, A., see Adeva, B. . . . A289 (1990) 35
Nikitin, M.M., see Bagrov, V.G. . . . A282 (1989) 402
Nikitin, M.M., V.Yu. Muravyatkin and V.Ya. Epp, Radiation of a charge moving with multiple frequencies in an electromagnetic field . . . A282 (1989) 481
Nikitina, T.F., see Alexandrov, Yu.M. . . . A282 (1989) 716
Nikitina, T.F., see Alexandrov, Yu.M. . . . A282 (1989) 725
Nikulin, A.Yu., see Erko, A.I. . . . A282 (1989) 634
Nino, R., see Cherubini, R. . . . A281 (1989) 349
Ninomiya, M., see Tanaka, M. . . . A284 (1989) 296
Nishizawa, M., K. Hibino, M. Ohnishi, M. Sakata, M. Shima, Y. Yamamoto, H. Sugimoto, K. Taira, M. Shibata, T. Shirai, N. Tateyama, S. Torii, K. Kasahara, To. Saito, T. Yuda, K. Mizutani, N. Hotta, I. Ohta, M. Amenomori and H. Nanjo, A monitoring system of the fast-timing scintillation counters used for detection of air showers . . . A285 (1989) 532
Nishizawa, M., see Amenomori, M. . . . A288 (1990) 619
Nistler, W., see Krüger, E. . . . A284 (1989) 143
Nitsche, R., see Siffert, P. . . . A283 (1989) 363
Nitta, Y. and S. Enomoto, Real-time position measuring technique for a moving object with a sealed gamma-ray source attached . . . A285 (1989) 540

Nitz, D., see Abrams, G. ... A281 (1989) 55
Niu Zhanqi, see Su Tongling ... A287 (1990) 452
Niu, E., see Kodama, K. ... A289 (1990) 146
Niu, K., see Kodama, K. ... A289 (1990) 146
Niwa, K., see Tajima, H. ... A288 (1990) 536
Niwa, K., see Kodama, K. ... A289 (1990) 146
Nixon, G., see ZEUS-UK Collaboration ... A283 (1989) 477
Nixon, J.M., see Den Hartog, P.K. ... A287 (1990) 235
Noda, A., see Bisoffi, G. ... A287 (1990) 320
Noé, J.W., R. Arora, J. Rico, J. Sikora and H. Uto, A retrofit/upgrade of the Stony Brook linac ... A287 (1990) 240
Nöldeke, G., see Huthmacher, S. ... A283 (1989) 454
Noll, R., see Neff, W. ... A285 (1989) 253
Nölle, D., Asymmetries of the gain curve ... A285 (1989) 115
Nomachi, M., see Akei, M. ... A283 (1989) 46
Nomachi, M., see Yamashita, T. ... A283 (1989) 709
Nomura, T., see Yamashita, T. ... A283 (1989) 709
Noppe, J.M., see Brand, C. ... A283 (1989) 567
Norimura, T., see Yamamoto, H. ... A281 (1989) 128
Norton, P., see Bagliesi, G. ... A286 (1989) 61
Noumi, H., see Akei, M. ... A283 (1989) 46
Nowak, W.D., see Adeva, B. ... A289 (1990) 35
Nozue, Y., see Miyahara, H. ... A286 (1989) 497
Nozue, Y., see Miyahara, H. ... A286 (1989) 519
Numano, K., see Kitagaki, T. ... A281 (1989) 81
Nunokawa, H., see Tanaka, M. ... A284 (1989) 296
Nurushev, S.B., see FNAL-E581/704 Collaboration ... A290 (1990) 269
Nussbaum, M., see Aston, D. ... A283 (1989) 582
Nussbaum, M., see Aston, D. ... A283 (1989) 590
Nuzzo, S., see Bagliesi, G. ... A286 (1989) 61
Nyholm, T., see Karlsson, U.O. ... A282 (1989) 553
Nyman, M.A., see Renner, T.R. ... A281 (1989) 640

Oakham, F.G., see Carter, J.R. ... A286 (1989) 99
Oberlack, H., see Schoeneberg, U. ... A288 (1990) 191
O'Brien, E., see Chi, C.Y. ... A281 (1989) 448
Ockenfels, M., see Hohlweck, M. ... A281 (1989) 277
Oddone, P., see Nemethy, P. ... A283 (1989) 578
Odian, A., see Adler, J. ... A283 (1989) 679
Odintsov, D.G., see Belskiy, A.N. ... A282 (1989) 625
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Oelert, W., see Sefzick, T. ... A288 (1990) 571
Oepts, D., see Van Amersfoort, P.W. ... A285 (1989) 67
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Oepts, D., see Best, R.W.B. ... A285 (1989) 211
Oganessian, A., see Baake, M. ... A281 (1989) 325
Oganessian, A.G., see Avundjian, A.T. ... A283 (1989) 612
Ogilvie, C.A., see Krofcheck, D. ... A288 (1990) 497
Ogiwara, M., see Kubota, S. ... A285 (1989) 436
Ogren, H., see Abrams, G. ... A281 (1989) 55
Ogura, K., see Nakamura, S. ... A286 (1989) 323
Ogura, K., see Ichinose, H. ... A286 (1989) 327
Oh, S., see Huang, Y. ... A288 (1990) 293
O'Halloran, T., see Chi, C.Y. ... A281 (1989) 448
Ohama, T., see Alexander, J.P. ... A283 (1989) 519
O'Hare, J., see Kirlin, P.S. ... A289 (1990) 261
Ohashi, H., R. Hajima and S. Kondo, Propagation of picosecond electron beams for gas-loaded FELs ... A285 (1989) 265
Ohashi, Y., see FNAL-E581/704 Collaboration ... A290 (1990) 269

Ohashi, Y., see Mitsui, K. . . . A290 (1990) 565
Ohba, K., Y. Hiratate, T. Taguchi and A. Hiraki, Photoluminescence of CdTe crystals annealed in Hg . . . A283 (1989) 265
Ohgaki, H., see Koori, N. . . . A281 (1989) 243
Ohgaki, H., see Urase, K. . . . A290 (1990) 401
Ohigashi, N., see Mima, K. . . . A285 (1989) 47
Ohkawa, S., see Kato, S. . . . A287 (1990) 499
Ohkubo, M., see Kawarasaki, Y. . . . A285 (1989) 338
Ohnishi, M., see Nishizawa, M. . . . A285 (1989) 532
Ohnishi, M., see Amenomori, M. . . . A288 (1990) 619
Ohsumi, H., see Akei, M. . . . A283 (1989) 46
Ohta, I., see Nishizawa, M. . . . A285 (1989) 532
Ohta, I., see Amenomori, M. . . . A288 (1990) 619
Ohta, K., see Fujii, Y. . . . A283 (1989) 665
Oillataguerre, P., see Yegneswaran, A. . . . A290 (1990) 61
Oishi, I., see Ozaki, M. . . . A284 (1989) 286
Okabe, H., see Kodama, K. . . . A289 (1990) 146
Okada, A., see Mitsui, K. . . . A290 (1990) 565
Okamoto, A., see Hemmi, Y. . . . A281 (1989) 462
Okamoto, H., Beam dynamics of alternating phase focused linacs . . . A284 (1989) 233
Okamoto, S., see Ono, M. . . . A285 (1989) 477
Okamoto, S., see Kawai, T. . . . A285 (1989) 520
Okle, M., see Adeva, B. . . . A289 (1990) 35
Okuda, K., see Akei, M. . . . A283 (1989) 46
Okumura, K., see Utsuro, M. . . . A281 (1989) 649
Okusawa, T., see Kodama, K. . . . A289 (1990) 146
Okx, W.J.C., C.W.E. Van Eijk, N.W. Tanner and R. De Vries, A compact threshold Cherenkov detector . . . A289 (1990) 614
Olcese, A., see Antinori, F. . . . A288 (1990) 82
Olesen, M.C., see Furuno, K. . . . A281 (1989) 10
Oleynik, G.A., see Kodama, K. . . . A289 (1990) 146
Olivi, L., see Beverini, N. . . . A289 (1990) 532
Olmos, P., see Alcaraz, J. . . . A284 (1989) 303
Olmos, P., see Adeva, B. . . . A289 (1990) 35
Olness, J., see E-802 Collaboration . . . A290 (1990) 41
Olschner, F., see Lund, J.C. . . . A288 (1990) 31
Olschner, F., see Farrell, R. . . . A288 (1990) 137
Olson, D.L., see Kobayashi, T. . . . A284 (1989) 381
Omata, K., see Akei, M. . . . A283 (1989) 46
Omelyanenko, A.A., see Budagov, Yu.A. . . . A284 (1989) 433
O'Neill, M., see Michel, E. . . . A283 (1989) 544
Onel, Y., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Ong, R.A., see Abrams, G. . . . A281 (1989) 55
Ono, M., S. Tasaki and S. Okamoto, Data acquisition system of a time-of-flight analyzer for use in a multi-detector assembly for neutron scattering experiments . . . A285 (1989) 477
Ono, R.H., see Gabutti, A. . . . A289 (1990) 274
Ono, S., see Kodama, K. . . . A289 (1990) 146
Onuchin, A.P., see Aulchenko, V.M. . . . A289 (1990) 468
Onvlee, H., see Adeva, B. . . . A289 (1990) 335
Onvlee, H., see Adeva, B. . . . A290 (1990) 115
Onvlee, J., see Adeva, B. . . . A289 (1990) 35
Opat, G.I., see Cimmino, A. . . . A284 (1989) 179
Opat, G.I., see Kaiser, H. . . . A284 (1989) 190
Orecchia, J., see Huck, H. . . . A283 (1989) 1
Orekhanov, P.A., see Kolobanov, V.N. . . . A282 (1989) 619
Orihara, H., see Niizeki, T. . . . A287 (1990) 455
Orito, S., see Nakamura, S. . . . A286 (1989) 323
Orito, S., see Ichinose, H. . . . A286 (1989) 327
Orr, N.A., see Fifield, L.K. . . . A288 (1990) 360
Ortale, C., see Skinner, N.L. . . . A283 (1989) 119
Ortale, C., see Steinberg, S. . . . A283 (1989) 123
Ortale, C., see Schieber, M. . . . A283 (1989) 172

Ortale, C., see James, R.B. . . . A283 (1989) 188
Ortale, C., see Felter, T.E. . . . A283 (1989) 195
Ortale, C., see Patt, B.E. . . . A283 (1989) 215
Ortega, J.M., see Couprie, M.E. . . . A282 (1989) 455
Ortega, J.M., M. Bergher, R. Chaput, A. Dael, M. Velghe, Y. Petroff, J.C. Bourdon, R. Belbeoch, P. Brunet, Y. Dabin, B. Mouton, J.P. Perrine, E. Plouvier, R. Pointal, M. Renard, M. Roch, J. Rodier, P. Roudier, Y. Thiery, P. Bourgeois, P. Carlos, C. Hezard, J. Fagot, J.L. Fallou, P. Garganne, J.C. Malglaive and D.T. Tran, CLIO: Collaboration for an Infrared Laser at Orsay . . . A285 (1989) 97
Orzechowski, T.J., see Jong, R.A. . . . A285 (1989) 379
Osborne, D., see Adeva, B. . . . A289 (1990) 35
Osborne, L.S., see Benvenuti, A.C. . . . A284 (1989) 339
Osborne, L.S., see Benvenuti, A.C. . . . A289 (1990) 463
Osborne, L.S., see Benvenuti, A.C. . . . A290 (1990) 353
Osculati, B., see Antinori, F. . . . A288 (1990) 82
O'Shaughnessy, K.F., see Abrams, G. . . . A281 (1989) 55
O'Shaughnessy, K.F., see Boyarski, A. . . . A283 (1989) 617
O'Shea, V., see LAA-LAD Group . . . A289 (1990) 351
Oshima, N., see Butler, J.M. . . . A290 (1990) 122
Osipov, V.N., see Anashin, V.V. . . . A282 (1989) 369
Osipowicz, Th. and K.P. Lieb, Erosion of solid krypton targets by protons measured with PIXE . . . A282 (1989) 236
Ossmann, J., see Adeva, B. . . . A289 (1990) 35
Osswald, F., see Haas, F. . . . A287 (1990) 18
Ostiguy, J.F., see Segall, S.B. . . . A285 (1989) 355
Ostojic, R., see Mandrillon, P. . . . A285 (1989) 395
Ostojic, R. and P. Mandrillon, On the transverse particle stability in highly spiraled magnetic structures . . . A288 (1990) 339
O'Sullivan, D., see McKenna-Lawlor, S. . . . A290 (1990) 217
Ott, R.J., see Bateman, J.E. . . . A283 (1989) 436
Ott, W., see Krämer, D. . . . A287 (1990) 268
Ott, W., see Steck, M. . . . A287 (1990) 324
Ottaviani, G., see Nava, F. . . . A290 (1990) 457
Otten, E.-W., see Ruster, W. . . . A281 (1989) 547
Ottesen, D.K., see James, R.B. . . . A283 (1989) 188
Overbeck, M., A. Breskin, M. Brügger, R. Chechik, Z. Fraenkel, G. Herrmann, K. Lützenkirchen, S. Polikanov, N. Trautmann and Th. Wilpert, A heavy-ion identification system for the detection of rare events . . . A288 (1990) 413
Overseth, O.E., see UA6 Collaboration . . . A286 (1989) 49
Ovid'ko, I.A., see Barakhtin, B.K. . . . A282 (1989) 651
Owens, R.O., Statistical treatment of tagged photon experiments . . . A288 (1990) 574
Ozaki, M., S. Mukoyama, H. Ito and I. Oishi, Nb/Cu superconducting rf cavity made by a new method . . . A284 (1989) 286
Ozaki, T., see Hiramatsu, S. . . . A285 (1989) 83

Pac, M.Y., see Kodama, K. . . . A289 (1990) 146
Pace, E., see Bacilieri, P. . . . A289 (1990) 610
Page, J., see Blanchis, P. . . . A286 (1989) 447
Page, R.D., see Allcock, S.C. . . . A289 (1990) 213
Pages, J.L., see UA6 Collaboration . . . A286 (1989) 49
Paić, G., see Vasileiadis, G. . . . A289 (1990) 618
Pain, R., see Amery, A. . . . A283 (1989) 502
Pal, T., see Beuville, E. . . . A288 (1990) 68
Pal, T., see Ansari, R. . . . A288 (1990) 240
Palamara, O., see Bertino, M. . . . A283 (1989) 654
Palazzi, P.A., see De Angelis, A. . . . A281 (1989) 93
Palma Lopes, S., see Amery, A. . . . A283 (1989) 502
Palmieri, V., see Fortuna, G. . . . A287 (1990) 253
Palomar, J.V., see Luna, H.B. . . . A285 (1989) 349
Palombo, F., see Aulchenko, V.M. . . . A289 (1990) 468
Palombo, F., see Nava, F. . . . A290 (1990) 457
Palounek, A.P.T., see Hanson, G.G. . . . A283 (1989) 735
Palounek, A.P.T., see Hanson, G.G. . . . A289 (1990) 365
Paméla, J., see Fumelli, M. . . . A285 (1989) 527
Pan, M., see Flamand, J. . . . A282 (1989) 532

Pan Minshen, see Su Tongling ... A287 (1990) 452
Pancella, P., see Solberg, K. ... A281 (1989) 283
Panchenko, V.E., see Kulipanov, G.N. ... A282 (1989) 590
Pandoulas, D., see Adeva, B. ... A289 (1990) 35
Panin, V.S., see Aulchenko, V.M. ... A289 (1990) 468
Pantaleo, A., L. Fiore, G. Guarino, V. Paticchio, G. D'Erasmo, E.M. Fiore, N. Colonna, G.J. Wozniak and L.G. Moretto, Response of a prototype module of a neutron-multiplicity calorimeter ... A286 (1989) 230
Paoletti, R., see Bertolucci, S. ... A289 (1990) 375
Paolone, V.S., see Kodama, K. ... A289 (1990) 146
Papastefanou, C. and C. Charalambous, Dating of speleothems by radiological methods ... A281 (1989) 406
Papastergiou, S., see Kirby, P. ... A281 (1989) 176
Paprotny, H., see Adeva, B. ... A289 (1990) 35
Pardo, R.C., see Den Hartog, P.K. ... A287 (1990) 235
Parekh, P.P., see Semkow, T.M. ... A290 (1990) 437
Parham, A.G., see ZEUS-UK Collaboration ... A283 (1989) 477
Parham, A.G., see Harnew, N. ... A283 (1989) 781
Paridaens, J., D. Segers, M. Dorikens and L. Dorikens-Vanpraet, Slow positron beam at the 90 MeV linac of Ghent University ... A287 (1990) 359
Park, I.G., see Kodama, K. ... A289 (1990) 146
Park, S., D. Buchholz, C. Castoldi, D. Claes, B. Gobbi, R. Yoshida, A. Sala, V. Arena, G. Boca, A. Cotta-Ramusino, R. Diaferia, S. Ratti and P. Vitulo, Performance of the hadron calorimeter for FNAL experiment E687 ... A289 (1990) 496
Parker, J.L., Near-optimum procedure for half-life measurement by high-resolution gamma-ray spectroscopy ... A286 (1989) 502
Parker, M.A., see Ansari, R. ... A288 (1990) 240
Parker, S., see Adolphsen, C. ... A288 (1990) 257
Parker, S.I., see Abrams, G. ... A281 (1989) 55
Parks, D., see Hungerford, D. ... A286 (1989) 155
Parlier, B., see Agnetta, G. ... A281 (1989) 197
Parmentola, A., see Adeva, B. ... A289 (1990) 35
Parodi, R., see Fernandes, P. ... A288 (1990) 549
Parsons, C.G., see E-802 Collaboration ... A290 (1990) 41
Parsons, J.A., see Michel, E. ... A283 (1989) 544
Parzen, G., Space charge limits in proton synchrotrons ... A281 (1989) 413
Pascholati, P.R., V.R. Vanin and T. Kodama, A matricial method to obtain sub-barrier fusion cross sections from off-line X-ray measurements ... A281 (1989) 610
Pascovici, G., see Marinescu, L. ... A287 (1990) 127
Pass, C.N., see Smith, A.E. ... A289 (1990) 231
Passaneau, J., see Armstrong, T.A. ... A289 (1990) 109
Passeggio, G., see Adeva, B. ... A289 (1990) 35
Passoja, A., see Dionisio, J.S. ... A282 (1989) 10
Passuello, D., see Battaiotto, P. ... A287 (1990) 431
Passuello, D., see Bigongiari, A. ... A288 (1990) 529
Passuello, D., see Bradaschia, C. ... A289 (1990) 518
Passuello, D., see Amendolia, S.R. ... A289 (1990) 539
Pastor, C., see Benrachi, F. ... A281 (1989) 137
Pastor, C., see AMORPHA Collaboration ... A281 (1989) 528
Pastore, F., see Borer, K. ... A286 (1989) 128
Patarakin, O.O., see Berlev, A.I. ... A283 (1989) 614
Patel, G.D., see Beck, G.A. ... A283 (1989) 471
Patel, G.D., see Grässler, H. ... A283 (1989) 622
Patel, P., see ZEUS Calorimeter Group ... A290 (1990) 95
Pater, J., see Barczewski, T. ... A289 (1990) 176
Paternoster, G., see Adeva, B. ... A289 (1990) 35
Paternoster, G., see Adeva, B. ... A289 (1990) 335
Paternoster, G., see Adeva, B. ... A290 (1990) 115
Paticchio, V., see Pantaleo, A. ... A286 (1989) 230
Patricelli, S., see Adeva, B. ... A289 (1990) 35
Patricelli, S., see Adeva, B. ... A289 (1990) 335
Patricelli, S., see Adeva, B. ... A290 (1990) 115
Patrick, G.N., see Akrawy, M. ... A290 (1990) 76
Patt, B.E., A.G. Beyerle, R.C. Dolin and C. Ortale, Developments in mercuric iodide gamma ray imaging ... A283 (1989) 215

Paul, A.C., see Jong, R.A. . . . A285 (1989) 379
Paul, L., see Anton, F. . . . A284 (1989) 101
Paul, M., see Berkovits, D. . . . A281 (1989) 663
Paul, P., Closing address . . . A287 (1990) 333
Paul, S., see Anton, F. . . . A284 (1989) 101
Paul, W., see Anton, F. . . . A284 (1989) 101
Pauletta, G., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Paulus, T.J. and R.M. Keyser, Enhancement of peak-to-total ratio in gamma-ray spectroscopy . . . A286 (1989) 364
Pauluzzi, M., see Benvenuti, A.C. . . . A284 (1989) 339
Pauluzzi, M., see SLD-WIC Collaboration . . . A289 (1990) 449
Pauluzzi, M., see Benvenuti, A.C. . . . A289 (1990) 463
Pauluzzi, M., see Benvenuti, A. . . . A289 (1990) 577
Pauluzzi, M., see Benvenuti, A.C. . . . A290 (1990) 353
Pautrat, M., see Dionisio, J.S. . . . A282 (1989) 10
Pauwels, J., see Ingelbrecht, C. . . . A282 (1989) 217
Pauwels, J., see Mast, H. . . . A282 (1989) 107
Pauwels, J., see Byrne, J. . . . A284 (1989) 116
Payne, A.G.D. and N.E. Booth, Tests of some prototype indium-loaded scintillators for solar neutrino detection A288 (1990) 632
Payne, A.G.D., see Drexlin, G. . . . A289 (1990) 490
Payne, B.T., see ZEUS-UK Collaboration . . . A283 (1989) 477
Pearcey, J., S.A. Woods and P. Christmas, The internal conversion spectrum following ^{244}Cm alpha-particle decay . . . A286 (1989) 563
Pearson, J.F., see Fraser, G.W. . . . A284 (1989) 483
Peatman, W. and J. Bahrdt, Undulator radiation: promises and problems . . . A282 (1989) 448
Peck, C., see Abrams, G. . . . A281 (1989) 55
Pedroni, R.S., see Saraf, S.K. . . . A288 (1990) 451
Peetermans, F., see Ingelbrecht, C. . . . A282 (1989) 217
Pegoraro, M., see Lippi, I. . . . A286 (1989) 243
Pegoraro, M., see Dijkstra, H. . . . A289 (1990) 400
Pei, Y.J., see Adeva, B. . . . A289 (1990) 35
Pein, U., see Fretwurst, E. . . . A288 (1990) 1
Peisert, A., see Dijkstra, H. . . . A289 (1990) 400
Pellegrini, C., see Cline, D. . . . A290 (1990) 297
Peltonen, J., see Valtonen, E. . . . A286 (1989) 169
Pelzer, W., Transit time stabilization for ion beam bunches from the VICKSI 8UD-tandem . . . A287 (1990) 180
Pendlebury, J.M., see Mampe, W. . . . A284 (1989) 111
Pendlebury, J.M., Fundamental phyiscs with slow neutrons . . . A284 (1989) 227
Peng, Y., see Adeva, B. . . . A289 (1990) 35
Peng, Y., see Adeva, B. . . . A289 (1990) 35
Peng, Y., see Adeva, B. . . . A289 (1990) 335
Peng, Y., see Adeva, B. . . . A290 (1990) 115
Pengo, R., see Manente, G. . . . A282 (1989) 140
Pengo, R., Developments at the LNL target laboratory . . . A282 (1989) 180
Pengo, R., see Fortuna, G. . . . A287 (1990) 253
Pengo, R., P. Favaron, P. Buso, L. Badan and S. Marigo, Investigation of the possibility of applying the vacuum brazing technology to the joints of a superconducting QWR . . . A287 (1990) 309
Penicaud, J.P., see Moalem, A. . . . A289 (1990) 168
Pennacchio, E., see Borer, K. . . . A286 (1989) 128
Penso, G., see Angelini, C. . . . A281 (1989) 50
Penso, G., see WA84 Collaboration . . . A289 (1990) 342
Penso, G., see WA84 Collaboration . . . A289 (1990) 356
Pentney, J.M., see Alitti, J. . . . A283 (1989) 646
Penttilä, H., see Taskinen, P. . . . A281 (1989) 539
Penzo, A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Pepe, M., see Bagliesi, G. . . . A286 (1989) 61
Pepe, M., see Ansari, R. . . . A288 (1990) 240
Perdrisat, C.F., see Bonin, B. . . . A288 (1990) 379
Perdrisat, C.F., see Bonin, B. . . . A288 (1990) 389
Perepelitsa, V.F., see Abov, Yu.G. . . . A284 (1989) 80
Pérez, M.L., see Huck, H. . . . A283 (1989) 1
Perl, J., see Abrams, G. . . . A281 (1989) 55

Perl, M.L., see Abrams, G. . . . A281 (1989) 55
Perl, M.L., see Alexander, J.P. . . . A283 (1989) 519
Pernicka, M., see Carli, Ch. . . . A283 (1989) 723
Pernicka, M., see Lippi, I. . . . A286 (1989) 243
Perreau, J-M., see Bonetti, S. . . . A286 (1989) 135
Perret-Gallix, D., see Adeva, B. . . . A289 (1990) 35
Perrier, F., see Abrams, G. . . . A281 (1989) 55
Perrier, J., see Adeva, B. . . . A289 (1990) 35
Perrin, E., see Adeva, B. . . . A289 (1990) 35
Perrine, J.P., see Ortega, J.M. . . . A285 (1989) 97
Perrot, G., see Adeva, B. . . . A289 (1990) 35
Perroud, J.-P., see UA6 Collaboration . . . A286 (1989) 49
Pershing, D.E., R.H. Jackson, H.P. Freund and H. Bluem, The K_u-band ubitron experiment at the Naval Research Laboratory . . . A285 (1989) 56
Persigny, J.A., see Lutz, J.R. . . . A287 (1990) 166
Persson, A., see Werin, S. . . . A290 (1990) 589
Perticone, D.R., see Fujii, Y. . . . A283 (1989) 665
Peruzzi, I., see Allaby, J.V. . . . A281 (1989) 291
Peruzzi, I., see Benvenuti, A.C. . . . A284 (1989) 339
Peruzzi, I., see Benvenuti, A.C. . . . A289 (1990) 463
Peruzzi, I., see Benvenuti, A.C. . . . A290 (1990) 353
Pescara, L., see Benvenuti, A.C. . . . A284 (1989) 339
Pescara, L., see SLD-WIC Collaboration . . . A289 (1990) 449
Pescara, L., see Benvenuti, A.C. . . . A289 (1990) 463
Pescara, L., see Benvenuti, A. . . . A289 (1990) 577
Pescara, L., see Benvenuti, A.C. . . . A290 (1990) 353
Peshekhonov, V.D., see Zanevsky, Yu.V. . . . A283 (1989) 462
Peskov, V., G. Charpak, F. Sauli, D. Scigocki, V. Diep and D. Janjic, Organometallic photocathodes for parallel-plate and wire chambers . . . A283 (1989) 786
Pessina, G., see Alessandrello, A. . . . A289 (1990) 426
Pessina, G., see Alessandrello, A. . . . A289 (1990) 504
Petek, M., see Aaron, W.S. . . . A282 (1989) 147
Peter, R., see Gaudiot, G. . . . A287 (1990) 37
Peterreins, Th., see Pröbst, F. . . . A288 (1990) 125
Peters, S., see Grindhammer, G. . . . A290 (1990) 469
Petersen, A., see Abrams, G. . . . A281 (1989) 55
Petitpas, P., see Adeva, B. . . . A289 (1990) 35
Petradza, M., see Abrams, G. . . . A281 (1989) 55
Petrenko, S.V., see Bamburov, N.S. . . . A289 (1990) 265
Petrera, S., see Angelini, C. . . . A281 (1989) 50
Petrera, S., see WA84 Collaboration . . . A289 (1990) 342
Petrera, S., see WA84 Collaboration . . . A289 (1990) 356
Petridis, A., see Vasileiadis, G. . . . A289 (1990) 618
Petridou, C., see Bosi, F. . . . A283 (1989) 532
Petroff, Y., see Couprie, M.E. . . . A282 (1989) 455
Petroff, Y., see Ortega, J.M. . . . A285 (1989) 97
Petrolo, E., see Bacci, C. . . . A284 (1989) 536
Petrossian, L.M., see Avundjian, A.T. . . . A283 (1989) 612
Petrov, S.P., see Anashin, V.V. . . . A282 (1989) 369
Petrov, S.P., see Anashin, V.V. . . . A282 (1989) 386
Petrov, V.L., see Pustovarov, V.A. . . . A282 (1989) 595
Petrov, V.M., see Anashin, V.V. . . . A282 (1989) 369
Petrov, V.M., see Anashin, V.V. . . . A282 (1989) 386
Petrushin, V.I., see Abov, Yu.G. . . . A284 (1989) 80
Petschner, P., see Adeva, B. . . . A289 (1990) 35
Pettersen, T.E., see Alvsvåg, S.J. . . . A290 (1990) 320
Petukhov, Yu.P., see Barabash, L.S. . . . A288 (1990) 375
Pevsner, A., see Chi, C.Y. . . . A281 (1989) 448
Pevsner, A., see Adeva, B. . . . A289 (1990) 35
Pflüger, J. and P. Gürtler, Insertion devices for DORIS III . . . A287 (1990) 628
Pflüger, J. and G. Heintze, The asymmetric wiggler at HASYLAB . . . A289 (1990) 300

Pfützner, H.G., see Howell, C.R. . . . A290 (1990) 424
Pham, L.D., see Beise, E.J. . . . A281 (1989) 559
Phillips, D., see Damerell, C.J.S. . . . A288 (1990) 236
Phillips, D.R., see Den Hartog, P.K. . . . A287 (1990) 235
Phillips, G.C., see Etkin, A. . . . A283 (1989) 557
Phillips, G.C., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Phinney, N., see Koska, W. . . . A286 (1989) 32
Phinney, N., P. Bambade, W. Kozanecki and W. Koska, An automated focal point positioning and emittance measurement procedure for the interaction point of the SLC . . . A288 (1990) 308
Phinney, N., see Bambade, P. . . . A290 (1990) 11
Pi, B., see Abolins, M. . . . A289 (1990) 543
Piao Yubo, see Su Tongling . . . A287 (1990) 452
Picchi, P., see Antonelli, A. . . . A281 (1989) 589
Picchi, P., see Bagliesi, G. . . . A286 (1989) 61
Picchi, P., see Anelli, M. . . . A289 (1990) 294
Piccolo, M., see Allaby, J.V. . . . A281 (1989) 291
Piccolo, M., see Benvenuti, A.C. . . . A284 (1989) 339
Piccolo, M., see Benvenuti, A.C. . . . A289 (1990) 463
Piccolo, M., see Benvenuti, A.C. . . . A290 (1990) 353
Piechotka, M. and E. Kaldis, Mercuric iodide materials research: some recent developments and open problems A283 (1989) 111
Piel, H., see Chaloupka, H. . . . A285 (1989) 327
Piel, H., High T_c superconductors for accelerator cavities . . . A287 (1990) 294
Piemontese, L., see Benvenuti, A.C. . . . A284 (1989) 339
Piemontese, L., see Benvenuti, A.C. . . . A289 (1990) 463
Piemontese, L., see Benvenuti, A. . . . A289 (1990) 577
Piemontese, L., see Benvenuti, A.C. . . . A290 (1990) 353
Pier-Amory, J., see Adeva, B. . . . A289 (1990) 35
Pierce, B.J., see Meyer, T.W. . . . A285 (1989) 369
Pieri, M., see Adeva, B. . . . A289 (1990) 35
Pieri, V., see Adeva, B. . . . A289 (1990) 35
Pierini, P., see Bonifacio, R. . . . A289 (1990) 1
Pierrat, C., see Cuzin, M. . . . A283 (1989) 310
Pierschel, G., see Adeva, B. . . . A289 (1990) 35
Pietropaolo, F., see Bonetti, S. . . . A286 (1989) 135
Pilgram, W., see Grässler, H. . . . A283 (1989) 622
Pimenov, A.G., see Barabash, L.S. . . . A288 (1990) 375
Pinayev, I.V., see Drobyazko, I.B. . . . A282 (1989) 424
Pineda, J.C., see Andrade, E. . . . A287 (1990) 135
Pinfold, J., see Carter, J.R. . . . A286 (1989) 99
Pinfold, J.L., J-G. Boutin and D. Dumas, Pumped liquid scintillator-filled halar fibres: an approach to radiation-resistant calorimeter readout (*Letter to the Editor*) . . . A286 (1989) 345
Pingot, O., see Stichelbaut, F. . . . A283 (1989) 792
Pinto, C., see Bertino, M. . . . A283 (1989) 654
Pinto, I., see Bradaschia, C. . . . A289 (1990) 518
Piovella, N., see Bonifacio, R. . . . A289 (1990) 1
Piroué, P.A., see Adeva, B. . . . A289 (1990) 35
Pissanetzky, S. and P. Tompkins, 3-D magnetic field calculations for wigglers using magnus-3D . . . A285 (1989) 303
Pitman, D., see Adler, J. . . . A283 (1989) 679
Pitthan, R., see Abrams, G. . . . A281 (1989) 55
Piuz, F., see Chesi, E. . . . A283 (1989) 602
Placidi, M., see Bambade, P. . . . A290 (1990) 11
Plano, R., see Aston, D. . . . A283 (1989) 582
Plano, R., see Aston, D. . . . A283 (1989) 590
Platner, E.D., see Etkin, A. . . . A283 (1989) 557
Platz, W., see Masek, J. . . . A288 (1990) 104
Pleiter, F., see Mohsen, M. . . . A287 (1990) 506
Plischke, P., see Drexlin, G. . . . A289 (1990) 490
Pló, M., see Garabatos, C. . . . A283 (1989) 553
Pló, M., see Cherney, M. . . . A283 (1989) 796
Plouvier, E., see Ortega, J.M. . . . A285 (1989) 97
Plunkett, R., see Bertolucci, S. . . . A289 (1990) 375

Plyaskin, V., see L3 Collaboration . . . A285 (1989) 403
Plyaskin, V., see L3 Collaboration . . . A288 (1990) 364
Plyaskin, V., see Adeva, B. . . . A289 (1990) 35
Pochwalski, K., see Kempisty, T. . . . A286 (1989) 535
Podurets, K.M., S.Sh. Shilshtein and F. Eichhorn, Double-crystal diffractometer study of thermal neutron specular reflection . . . A290 (1990) 419
Poehlman, W.F.S., see Stark, J.W. . . . A287 (1990) 119
Poffè, N., see Smith, A.E. . . . A289 (1990) 231
Poggiani, R., see Beverini, N. . . . A289 (1990) 532
Pohl, M., see Adeva, B. . . . A289 (1990) 35
Pointal, R., see Ortega, J.M. . . . A285 (1989) 97
Pointon, B.W., see Henderson, R.S. . . . A286 (1989) 41
Poiret, C., see Stichelbaut, F. . . . A283 (1989) 792
Poitou, J., see Burgei, R. . . . A287 (1990) 481
Pojidaev, V., see L3 Collaboration . . . A285 (1989) 403
Pojidaev, V., see Adeva, B. . . . A289 (1990) 35
Poledna, R., see Iwahara, A. . . . A286 (1989) 370
Poledna, R., see Da Cruz, P.A.L. . . . A286 (1989) 453
Polesello, G., see Moreira, P. . . . A287 (1990) 417
Policarpo, A.J.P.L., see Ribeiro, R.S. . . . A283 (1989) 705
Policarpo, A.J.P.L., see De Fraga, F.A.F. . . . A283 (1989) 778
Policroniades, R., see Cherubini, R. . . . A281 (1989) 349
Polikanov, S., see Overbeck, M. . . . A288 (1990) 413
Poling, R., see Fujii, Y. . . . A283 (1989) 665
Pollari, K., see Ellilä, M. . . . A288 (1990) 267
Pollock, R.E., see Krämer, D. . . . A287 (1990) 268
Pollock, R.E., A new generation of small cooling rings . . . A287 (1990) 313
Pols, C.L.A., see Adeva, B. . . . A289 (1990) 35
Ponikvar, D.R., see Meyer, T.W. . . . A285 (1989) 369
Ponomareff, T., see Adeva, B. . . . A289 (1990) 35
Pontonnier, M., see Jacquot, B. . . . A287 (1990) 341
Popik, V.M., see Gavrilov, N.G. . . . A282 (1989) 422
Popik, V.M., see Drobyazko, I.B. . . . A282 (1989) 424
Popkov, Yu.P., see Boldyshev, V.P. . . . A282 (1989) 390
Popov, A.N., A.A. Antson, V.V. Belyaev, K.P. Bondarenko, E.H. Harutyunyan, D.M. Kheiker, M.A. Sheromov and S.V. Mytnychenko, A crystallographic station for structural investigations of macromolecular crystals on the synchrotron beam of the VEPP-3 storage ring . . . A282 (1989) 510
Popov, D.A., see Zelenina, N.K. . . . A283 (1989) 274
Porcellato, A.M., see Fortuna, G. . . . A287 (1990) 253
Port, P., see Garabatos, C. . . . A283 (1989) 553
Porter, F.C., see Abrams, G. . . . A281 (1989) 55
Porth, P., see Cherney, M. . . . A283 (1989) 796
Poth, H., W. Schwab, B. Seligmann, M. Wörtge, A. Wolf, S. Baird, J. Bosser, M. Chanel, H. Haseroth, C.E. Hill, R. Ley, D. Manglunki, D. Möhl, G. Tranquille and J.L. Vallet, Further results and evaluation of electron cooling experiments at LEAR . . . A287 (1990) 328
Potter, D.M., see Kodama, K. . . . A289 (1990) 146
Potter, M.E., see Allen, R.C. . . . A284 (1989) 347
Potvin, L., G.C. Ball, W.G. Davies, J.S. Forster, E. Hagberg, D. Horn, M.A. Lone, M. Montaigne, G.A. Sims, M.G. Steer, R.J. Toone, R. Roy, C. St-Pierre and A. Galindo-Uribarri, A broad-range detector system with large geometric efficiency for heavy-ion reaction studies . . . A281 (1989) 359
Potyka, J., see Adeva, B. . . . A289 (1990) 35
Pouliot, J., see Fowler, M.M. . . . A281 (1989) 517
Pouxe, J., see AMORPHA Collaboration . . . A281 (1989) 528
Povinec, P., see Budagov, Yu.A. . . . A284 (1989) 433
Powell, B., see Garabatos, C. . . . A283 (1989) 553
Powell, B., see Cherney, M. . . . A283 (1989) 796
Pranal, Y., see Dei-Cas, R. . . . A285 (1989) 320
Pratt, C., see Brocker, C. . . . A290 (1990) 303
Pravikoff, M.S., see Blank, B. . . . A286 (1989) 160
Prazeres, R., see Couprie, M.E. . . . A282 (1989) 455
Prechtel, U., see Rehak, P. . . . A288 (1990) 168

Prechtel, U., see Kemmer, J. A288 (1990) 92
Prechtel, U., see Strüder, L. A288 (1990) 227
Preciso, R., see Fortuna, G. A287 (1990) 253
Predehl, P., see Strüder, L. A288 (1990) 227
Prentice, J.D., see Michel, E. A283 (1989) 544
Prenzel, C.J., see Clajus, M. A281 (1989) 17
Prepost, R., see Allaby, J.V. A281 (1989) 291
Prestwich, W.V., see Islam, M.A. A287 (1990) 460
Pretzl, K., see Frank, M. A287 (1990) 583
Previtali, E., see Alessandrello, A. A289 (1990) 426
Previtali, E., see Alessandrello, A. A289 (1990) 504
Prevot, N., see ASTERIX Collaboration A286 (1989) 76
Price, M., see Angelis, A.L.S. A283 (1989) 762
Pridmore-Brown, D.C., see Hofland Jr, R. A285 (1989) 275
Pril, Yu.V., see Aulchenko, V.M. A289 (1990) 468
Primout, M., see Angelini, C. A281 (1989) 50
Pripstein, M., see Aubert, B. A286 (1989) 147
Pritchard, T.W., see Carter, J.R. A286 (1989) 99
Pritchard, T.W., see Carter, A.A. A286 (1989) 107
Pröbst, F., Th. Peterreins, F. Von Feilitzsch and H. Kraus, Position sensitive detection of nuclear radiation mediated by non equilibrium phonons at low temperatures A288 (1990) 125
Produit, N., see Adeva, B. A289 (1990) 35
Prokert, K., see Braatz, U. A283 (1989) 240
Prokhvatilov, M.A., see Berlev, A.I. A283 (1989) 614
Prokofiev, O., see Fabbretti, R. A287 (1990) 413
Prokofiev, O., see Adeva, B. A289 (1990) 335
Prokofiev, O., see Adeva, B. A290 (1990) 115
Prokofiev, P., see Adeva, B. A289 (1990) 35
Prosser, V., see Kolobanov, V.N. A282 (1989) 619
Prosvetov, V.K., see Belskiy, A.N. A282 (1989) 625
Prüfert, W., see Huthmacher, S. A283 (1989) 454
Pruja, F., see Adeva, B. A289 (1990) 35
Przyłuski, J. and J. Laskowski, α-HgI_2 platelets technology A283 (1989) 144
Ptohos, F., see Bonetti, S. A286 (1989) 135
Ptohos, F., see Geer, S. A287 (1990) 447
Puglierin, G., Free neutron oscillations A284 (1989) 9
Pulin, A.D., see Ignatyev, O.V. A282 (1989) 734
Punzi, G., see Carithers, W.C. A289 (1990) 388
Pustovarov, V.A., see Ivanov, V.Y. A282 (1989) 559
Pustovarov, V.A., A.V. Kruzhalov, N.M. Kalinkina, V.A. Lobatch and V.L. Petrov, The electronic structure of bismuth germanate A282 (1989) 595
Pütz, G., see Adeva, B. A289 (1990) 35
Pynn, R., see Sivia, D.S. A287 (1990) 538
Pyrlik, J., see Allaby, J.V. A281 (1989) 291
Pyrlik, J., see Hungerford, D. A286 (1989) 155

Qaim, S.M., Target development for medical radioisotope production at a cyclotron A282 (1989) 289
Qi, N., see Allaby, J.V. A281 (1989) 291
Qian, J.M., see Adeva, B. A289 (1990) 35
Qian, J.M., see Adeva, B. A289 (1990) 335
Qian, J.M., see Adeva, B. A290 (1990) 115
Quick, C.R., see Holtkamp, D.B. A287 (1990) 348
Quidort, J., see Aderholz, M. A284 (1989) 311
Quimby, D.C., S.C. Gottschalk, F.E. James, K.E. Robinson, J.M. Slater and A.S, Valla, Development of a 10-meter wedged-pole undulator A285 (1989) 281
Quinn, B., see Garabatos, C. A283 (1989) 553
Quinn, B., see Cherney, M. A283 (1989) 796
Quinn, P.D., see Hughes, E.A. A282 (1989) 392
Qun, C., see Zhong, C. A281 (1989) 384

Raatz, J.E., see Sundquist, M.L. . . . A287 (1990) 87
Rachko, Z.A., see Buzulutskov, A.F. . . . A288 (1990) 659
Radack, D., see Booske, J.H. . . . A285 (1989) 92
Radeka, V., see Angelis, A.L.S. . . . A283 (1989) 762
Radeka, V., see Debbe, R. . . . A283 (1989) 772
Radeka, V., see Rehak, P. . . . A288 (1990) 168
Radeka, V., see Strüder, L. . . . A288 (1990) 227
Radeka, V., see Demicheli, M. . . . A289 (1990) 418
Rader, M., see Alexeff, I. . . . A285 (1989) 228
Radoszewski, T., see Kempisty, T. . . . A286 (1989) 535
Rae, W.D.M., see Allcock, S.C. . . . A289 (1990) 213
Rafelski, J., see Shin, G.R. . . . A287 (1990) 565
Raffaelli, F., see Carithers, W.C. . . . A289 (1990) 388
Ragan, K., see Carroll, J.T. . . . A289 (1990) 606
Raghavan, R., see Adeva, B. . . . A289 (1990) 35
Ragusa, F., see Bonetti, S. . . . A286 (1989) 135
Raia, G., see Ciavola, G. . . . A287 (1990) 21
Raine, C., see Bagliesi, G. . . . A286 (1989) 61
Rajput, M.U., see Longoria-Gandara, L. . . . A286 (1989) 529
Rajput, M.U., see Gray, P.W. . . . A286 (1989) 569
Ramamurthy, V.S., see Kataria, S.K. . . . A288 (1990) 585
Ramey, D.W., see Kobisk, E.H. . . . A282 (1989) 329
Ramil, A., see Garabatos, C. . . . A283 (1989) 553
Ramil, A., see Cherney, M. . . . A283 (1989) 796
Ramírez, M., see Huck, H. . . . A283 (1989) 1
Ramstein, G., see Cauvin, B. . . . A287 (1990) 263
Ramstein, G., B. Cauvin, J.P. Fouan, J. Girard and J. Roos, Beam optics and dynamics, calculations and measurements at the Saclay superconducting booster . . . A287 (1990) 291
Range, W.H., see Amery, A. . . . A283 (1989) 502
Ranieri, A., see Bagliesi, G. . . . A286 (1989) 61
Rankin, P., see Abrams, G. . . . A281 (1989) 55
Rankin, P., see Boyarski, A. . . . A283 (1989) 617
Rannot, R.C., see Bhat, C.L. . . . A281 (1989) 207
Raoof, M.A., A.M. Al-Soraya and O.S. Al-Horayess, Thermal-neutron fluxes in glycerin, base oil and water . . . A290 (1990) 208
Raoul, J.C., see Brand, C. . . . A283 (1989) 567
Raselli, G.L., see Benetti, P. . . . A281 (1989) 397
Raso, G., see Bagliesi, G. . . . A286 (1989) 61
Ratcliff, B., see Aston, D. . . . A283 (1989) 582
Ratcliff, B., see Aston, D. . . . A283 (1989) 590
Rathmell, R.D., see Sundquist, M.L. . . . A287 (1990) 87
Ratti, S., see Park, S. . . . A289 (1990) 496
Rauch, H., see Schmiedmayer, J. . . . A284 (1989) 137
Rauch, H., Wave–particle properties measured by neutron interferometry . . . A284 (1989) 156
Raudorf, T.W., see Keyser, R.M. . . . A286 (1989) 357
Rauscher, A., see Clajus, M. . . . A281 (1989) 17
Rawat, H.S., see Bhat, C.L. . . . A281 (1989) 207
Rawlings, K.J. and M.O. Deighton, The energy resolution of p^+nn^+ Si planar diodes with partially contacted p^+ emitters . . . A281 (1989) 373
Razis, P., see Fabbretti, R. . . . A287 (1990) 413
Razis, P., see Adeva, B. . . . A289 (1990) 35
Razis, P., see Adeva, B. . . . A289 (1990) 335
Razis, P., see Adeva, B. . . . A290 (1990) 115
Re, V., see Buttler, W. . . . A288 (1990) 140
Re, V., see Aulchenko, V.M. . . . A289 (1990) 468
Read, A.L., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Read Jr, A.L., see Allaby, J.V. . . . A281 (1989) 291
Read, K., see Adeva, B. . . . A289 (1990) 35
Read, M.E., see Booske, J.H. . . . A285 (1989) 92
Readdy, H.P., see Weitkamp, W.G. . . . A287 (1990) 283
Reardon, K., see Chi, C.Y. . . . A281 (1989) 448
Reay, N.W., see Kodama, K. . . . A289 (1990) 146

Rebmeister, R., F. Haas, C. Muller and A. Nadji, Extensive beam transmission measurements in the Strasbourg MP tandem . . . A287 (1990) 150
Rebmeister, R., see Nadji, A. . . . A287 (1990) 173
Rech, G., see Lutz, J.R. . . . A287 (1990) 166
Redaelli, N., see Breakstone, A. . . . A281 (1989) 453
Redaelli, N., see Antinori, F. . . . A288 (1990) 82
Redaelli, N., see Dijkstra, H. . . . A289 (1990) 400
Reddick, P., see Adeva, B. . . . A289 (1990) 35
Redwine, R.P., see Beise, E.J. . . . A281 (1989) 559
Regler, M., see Carli, Ch. . . . A283 (1989) 723
Rehak, P., S. Rescia, V. Radeka, E. Gatti, A. Longoni, M. Sampietro, G. Bertuccio, P. Holl, L. Strüder, J. Kemmer, U. Prechtel and T. Ziemann, Feedback charge amplifier integrated on the detector wafer . . . A288 (1990) 168
Rehak, P., see Strüder, L. . . . A288 (1990) 227
Rehak, P. and E. Gatti, State of the art in semiconductor detectors . . . A289 (1990) 410
Reher, D., see Coursey, B.M. . . . A290 (1990) 537
Rehklau, D., see Ruster, W. . . . A281 (1989) 547
Reibel, K., see Kodama, K. . . . A289 (1990) 146
Reich, H. and H.J. Jänsch, Nuclear spin polarized alkali beams (Na, Li): optical pumping with electro-optically modulated laser beam . . . A288 (1990) 349
Reichert, E., see Hartmann, W. . . . A286 (1989) 1
Reichert, I., see Döhner, J. . . . A284 (1989) 123
Reid, D.W., see Amery, A. . . . A283 (1989) 502
Reiff, P.H., see Weiss, L.A. . . . A281 (1989) 628
Reininger, R. and V. Saile, A soft X-ray grating monochromator for undulator radiation . . . A288 (1990) 343
Reissmann, K., see Adeva, B. . . . A289 (1990) 35
Remsberg, L.P., see E-802 Collaboration . . . A290 (1990) 41
Ren, D., see Adeva, B. . . . A289 (1990) 35
Renard, M., see Ortega, J.M. . . . A285 (1989) 97
Renner, O., see Kopecký, M. . . . A282 (1989) 719
Renner, presented by D., see VICKSI Group . . . A287 (1990) 117
Renner, T.R., W.T. Chu, B.A. Ludewigt, M.A. Nyman and R. Stradtner, Multisegmented ionization chamber dosimetry system for light ion beams . . . A281 (1989) 640
Rennert, P., see Zschech, E. . . . A282 (1989) 658
Rennie, J., see Sweet, M.A.S. . . . A283 (1989) 330
Rensing, P., see Aston, D. . . . A283 (1989) 582
Rensing, P., see Aston, D. . . . A283 (1989) 590
Repkov, V.V., see Anashin, V.V. . . . A282 (1989) 386
Repnow, R., see Krämer, D. . . . A287 (1990) 268
Repnow, R., see Steck, M. . . . A287 (1990) 324
Reppin, C., see Strüder, L. . . . A288 (1990) 227
Rescia, S., see Debbe, R. . . . A283 (1989) 772
Rescia, S., see Rehak, P. . . . A288 (1990) 168
Rescia, S., see Strüder, L. . . . A288 (1990) 227
Rescia, S., see Demicheli, M. . . . A289 (1990) 418
Reucroft, S., see Adeva, B. . . . A289 (1990) 35
Reusen, G., see Arnould, M. . . . A282 (1989) 99
Rey, D., see Adeva, B. . . . A289 (1990) 35
Reynaud, M., see Adeva, B. . . . A289 (1990) 35
Ribeiro, R.S., E.P. De Lima, R. Ferreira Marques, M.A.F. Alves and A.J.P.L. Policarpo, Photosensitive mixtures in the SQS mode . . . A283 (1989) 705
Ricadonna, X., see Adeva, B. . . . A289 (1990) 35
Rich, K., see Allaby, J.V. . . . A281 (1989) 291
Richard, F., see Brand, C. . . . A283 (1989) 567
Richard, J.M., see Dover, C.B. . . . A284 (1989) 13
Richardson, D.J. and S.K. Lamoreaux, Demonstrations of Berry's phase using polarised neutrons . . . A284 (1989) 192
Richaud, J.P., see Blanc, R. . . . A282 (1989) 136
Richetta, M., see Dattoli, G. . . . A285 (1989) 108
Richeux, J-P., see Adeva, B. . . . A289 (1990) 35
Richman, B.A., see Bhowmik, A. . . . A281 (1989) 224
Richman, J.D., see Abrams, G. . . . A281 (1989) 55
Richman, J.D., see Alexander, J.P. . . . A283 (1989) 519

Richstein, J., see Amendolia, S.R. . . . A283 (1989) 573
Richstein, J., see Barczewski, T. . . . A289 (1990) 176
Richter, A., see Aab, V. . . . A285 (1989) 76
Richter, A., see McKenna-Lawlor, S. . . . A290 (1990) 217
Richter, A., see Afonin, V.V. . . . A290 (1990) 223
Richter, A.K., see Marsden, R.G. . . . A290 (1990) 211
Richter, R., see Amendolia, S.R. . . . A283 (1989) 573
Richter, R., see Barczewski, T. . . . A289 (1990) 176
Richter, W., see Barczewski, T. . . . A289 (1990) 176
Ricken, L., see Eule, R.P. . . . A282 (1989) 281
Rico, J., see Noé, J.W. . . . A287 (1990) 240
Ricz, S., see Végh, J. . . . A281 (1989) 605
Riedel, H., see Masek, J. . . . A288 (1990) 104
Riedlberger, J., see ASTERIX Collaboration . . . A286 (1989) 76
Riegel, J., see Ruster, W. . . . A281 (1989) 547
Riehl, R., see Heugel, J. . . . A287 (1990) 109
Riehs, P., see Schmiedmayer, J. . . . A284 (1989) 137
Riester, J.L., see Garabatos, C. . . . A283 (1989) 553
Riester, J.L., see Cherney, M. . . . A283 (1989) 796
Rigoni, H., see Antonelli, A., . . . A281 (1989) 589
Riles, K., see Abrams, G. . . . A281 (1989) 55
Riley, S.P., An interrupt-driven data collection system for MS-DOS personal computers . . . A288 (1990) 525
Rimke, H., see Ruster, W. . . . A281 (1989) 547
Rimmer, E.M., Software for FASTBUS . . . A283 (1989) 399
Rimoldi, A., see Borer, K. . . . A286 (1989) 128
Rinckel, T., see Solberg, K. . . . A281 (1989) 283
Rinsche, U., see Adeva, B. . . . A289 (1990) 35
Ripamonti, G., F. Capasso, A.L. Hutchinson, D.J. Muehlner, J.F. Walker and R.J. Malik, Realization of a staircase photodiode: towards a solid-state photomultiplier . . . A288 (1990) 99
Rippich, C., see Adeva, B. . . . A289 (1990) 35
Rispoli, B., see Bacci, C. . . . A286 (1989) 295
Ristori, C., see AMORPHA Collaboration . . . A281 (1989) 528
Ristori, L., see Battaiotto, P. . . . A287 (1990) 431
Ristori, L., see Dell'Orso, M. . . . A287 (1990) 436
Ristori, L., see Amendolia, S.R. . . . A289 (1990) 539
Ritala, R., see Laakso, M. . . . A283 (1989) 459
Ritson, D., see Bambade, P. . . . A290 (1990) 11
Ritson, D.M., see Allaby, J.V. . . . A281 (1989) 291
Ritter, S., see Kraft-Weyrather, W. . . . A282 (1989) 22
Rivera, F., see LAA-LAD Group . . . A289 (1990) 351
Rivers, C., see UA6 Collaboration . . . A286 (1989) 49
Rizzi, D., see Bosi, F. . . . A283 (1989) 532
Rizzi, D., see Bollini, D. . . . A283 (1989) 635
Rizzo, C., see Bollini, D. . . . A283 (1989) 635
Roach, C.M., see Carter, J.R. . . . A286 (1989) 99
Roberts, J.B., see Etkin, A. . . . A283 (1989) 557
Roberts, J.B., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Roberts, J.H.C., see ZEUS-UK Collaboration . . . A283 (1989) 477
Roberts, M.L., see Howell, C.R. . . . A290 (1990) 424
Roberts, W.L., Gas centrifugation of research isotopes . . . A282 (1989) 271
Robertson, L.P., see ASTERIX Collaboration . . . A286 (1989) 76
Robinson, K.E., see Quimby, D.C. . . . A285 (1989) 281
Robmann, P., see Egli, S. . . . A283 (1989) 487
Rocco, R., see Adeva, B. . . . A289 (1990) 35
Roch, M., see Ortega, J.M. . . . A285 (1989) 97
Roche, G., see Yegneswaran, A. . . . A290 (1990) 61
Roda, C., see Angelini, C. . . . A281 (1989) 50
Roda, C., see WA84 Collaboration . . . A289 (1990) 342
Roda, C., see WA84 Collaboration . . . A289 (1990) 356
Rodgers, J., see Booske, J.H. . . . A285 (1989) 92
Rodier, J., see Ortega, J.M. . . . A285 (1989) 97

Rodin, A.M., see Bogdanov, D.D. . . . A289 (1990) 205
Rodriguez, S., see Adeva, B. . . . A289 (1990) 35
Rodyakin, V.A., see Aulchenko, V.M. . . . A289 (1990) 468
Roe, B.P., see L3 Collaboration . . . A285 (1989) 403
Roe, B.P., see Adeva, B. . . . A289 (1990) 35
Roe, S., see Avset, B.S. . . . A288 (1990) 131
Roehn, S., see Amendolia, S.R. . . . A283 (1989) 573
Roenko, V.A., see Anashin, V.V. . . . A282 (1989) 386
Rogers, J.W., see Coursey, B.M. . . . A290 (1990) 537
Rohatgi, R., see Shahal, O. . . . A285 (1989) 299
Rohde, M., see ZEUS Calorimeter Group . . . A289 (1990) 115
Rohde, M., see ZEUS Calorimeter Group . . . A290 (1990) 95
Röhn, S., see Barczewski, T. . . . A289 (1990) 176
Röhner, F., see Fischer, H.M. . . . A283 (1989) 492
Röhner, M., see Adeva, B. . . . A289 (1990) 35
Röhner, S., see Adeva, B. . . . A289 (1990) 35
Rohrer, L., H. Schnitter and B. Walchshäusl, The tandem Triton control system . . . A287 (1990) 170
Rohringer, H., see Garabatos, C. . . . A283 (1989) 553
Rohringer, H., see Cherney, M. . . . A283 (1989) 796
Röjsel, P., A position-sensitive detector for synchrotron radiation . . . A290 (1990) 603
Rolandi, L., see Amendolia, S.R. . . . A283 (1989) 573
Rolandi, L., see Barczewski, T. . . . A289 (1990) 176
Roldán, C., see Ferrero, J.L. . . . A286 (1989) 384
Rollason, A.J., F. Bell and J.R. Schneider, The determination of electron momentum densities by inelastic scattering gamma ray–electron coincidence measurements: the (γ, eγ) experiment . . . A281 (1989) 147
Rollason, A.J., see Manninen, S. . . . A290 (1990) 242
Rollason, A.J., see Collins, S.P. . . . A290 (1990) 254
Rollet, S., see Manfredotti, C. . . . A284 (1989) 464
Rollnik, A., see Fischer, H.M. . . . A283 (1989) 492
Rollwagen, M., see Fretwurst, E. . . . A288 (1990) 1
Romano, F., see Bagliesi, G. . . . A286 (1989) 61
Romanov, L.V., see Aulchenko, V.M. . . . A283 (1989) 528
Romanov, L.V., see Chilingarov, A.G. . . . A288 (1990) 62
Romanowski, T., see ZEUS Calorimeter Group . . . A290 (1990) 95
Rombach, Th., see Adeva, B. . . . A289 (1990) 35
Romero, L., see Adeva, B. . . . A289 (1990) 35
Romero, L., see Adeva, B. . . . A289 (1990) 335
Romero, L., see Adeva, B. . . . A290 (1990) 115
Ron, A., see Botton, M. . . . A285 (1989) 257
Ron, A., see Schächter, L. . . . A285 (1989) 261
Roney, J.M., see Carter, J.R. . . . A286 (1989) 99
Ronga, F., see Allaby, J.V. . . . A281 (1989) 291
Rongved, R., see Alvsvåg, S.J. . . . A290 (1990) 320
Ronto, Gy., see Feigin, L.A. . . . A282 (1989) 486
Roos, J., see Ramstein, G. . . . A287 (1990) 291
Ros, E., see ZEUS Calorimeter Group . . . A289 (1990) 115
Ros, E., see ZEUS Calorimeter Group . . . A290 (1990) 95
Ros, E., see Drews, G. . . . A290 (1990) 335
Rose, J., see Adeva, B. . . . A289 (1990) 35
Rosenberg, A., see Ben-Zvi, I. . . . A287 (1990) 93
Rosenberg, L.J., see Allaby, J.V. . . . A281 (1989) 291
Rosenson, L., see Benvenuti, A.C. . . . A284 (1989) 339
Rosenson, L., see Benvenuti, A.C. . . . A289 (1990) 463
Rosenson, L., see Benvenuti, A.C. . . . A290 (1990) 353
Rosenzweig, J., M. Adolf, H. Dignus and U. Birkholz, Characterization of high resistivity CdTe using acoustoelectric methods . . . A283 (1989) 255
Röser, U., see Adeva, B. . . . A289 (1990) 35
Roshchupkin, D.V., see Erko, A.I. . . . A282 (1989) 634
Rosier-Lees, S., see Adeva, B. . . . A289 (1990) 35
Ross, A., see Solberg, K. . . . A281 (1989) 283
Ross, F., see Schieber, M. . . . A283 (1989) 172

Rossa, E., see Cuzin, M. . . . A283 (1989) 310
Rossa, H.J., see Neissendorfer, F. . . . A282 (1989) 576
Rossel, F., see Amery, A. . . . A283 (1989) 502
Rossi, J.J., see Huck, H. . . . A283 (1989) 1
Rossi, L., see Antinori, F. . . . A288 (1990) 82
Rossi, L., see Darbo, G. . . . A289 (1990) 584
Rossi, P., see Bonetti, S. . . . A286 (1989) 135
Rossner, H., see AMORPHA Collaboration . . . A281 (1989) 528
Rosso, E., see Kalkanis, G. . . . A281 (1989) 489
Rosso, E., see Kalkanis, G. . . . A283 (1989) 37
Rosso, E., see Hahn, F. . . . A283 (1989) 686
Roth, A., see Barczewski, T. . . . A289 (1990) 176
Roth, Ch., see Heugel, J. . . . A287 (1990) 109
Roth, M., Advantages and limitations of cadmium selenide room temperature gamma ray detectors . . . A283 (1989) 291
Rothard, H., see Lorenzen, P. . . . A282 (1989) 213
Rotoli, G., see Bradaschia, C. . . . A289 (1990) 518
Rotondo, F.S., see Beringer, R. . . . A290 (1990) 370
Rotscheidt, H., see Barczewski, T. . . . A289 (1990) 176
Rottura, A., see Zucchiatti, A. . . . A281 (1989) 341
Rouaix, G., see Agnetta, G. . . . A281 (1989) 197
Roudier, P., see Ortega, J.M. . . . A285 (1989) 97
Rouse, F.R., see Abrams, G. . . . A281 (1989) 55
Rousseau, M.D., see Akrawy, M. . . . A290 (1990) 76
Routenburg, P., see Carter, J.R. . . . A286 (1989) 99
Rovelli, T., see Bollini, D. . . . A283 (1989) 635
Rowe, W.A., see Sadrozinski, H.F.-W. . . . A288 (1990) 76
Roy, A., A. Bandyopadhyay, S. Bhattacharya and S.K. De, Zero-suppressed DMA for multiparameter data acquisition using CAMAC . . . A286 (1989) 235
Roy, R., see Potvin, L. . . . A281 (1989) 359
Rozenberg, O.A., see Dragun, G.N. . . . A282 (1989) 495
Rozhkov, A., see L3 Collaboration . . . A285 (1989) 403
Ruan, J., see Kubota, S. . . . A285 (1989) 436
Ruan(Gen), J-Z., see Kubota, S. . . . A289 (1990) 253
Ruaudel-Teixier, A., see Blanchis, P. . . . A286 (1989) 447
Rubbia, C., see Bonetti, S. . . . A286 (1989) 135
Rubin, B., see Chi, C.Y. . . . A281 (1989) 448
Rubio, J.A., see Adeva, B. . . . A289 (1990) 35
Rubio, J.A., see Adeva, B. . . . A289 (1990) 335
Rubio, J.A., see Adeva, B. . . . A290 (1990) 115
Ruckstuhl, W., see Adeva, B. . . . A289 (1990) 35
Rudolph, K., see Fortuna, G. . . . A287 (1990) 253
Rudowicz, M., see Grindhammer, G. . . . A290 (1990) 469
Rudstam, G., (Book review: Neutron cross sections, volume 2, neutron cross section curves, by V. McLane, C.L. Dunford and P.F. Rose) . . . A281 (1989) 250
Ruegger, D., see UA6 Collaboration . . . A286 (1989) 49
Ruggieri, F., see Bagliesi, G. . . . A286 (1989) 61
Rühl, F., see Neff, W. . . . A285 (1989) 253
Ruhlmann, V., see Brand, C. . . . A283 (1989) 567
Rule, D.W., see Lumpkin, A.H. . . . A285 (1989) 343
Rumiantsev, V.L., see Alexeev, V.L. . . . A284 (1989) 181
Runge, K., see Fischer, H.M. . . . A283 (1989) 492
Rupasov, A.A., see Alexandrov, Yu.M. . . . A282 (1989) 551
Rupasov, A.A., see Alexandrov, Yu.M. . . . A282 (1989) 725
Rusack, R.W., see UA6 Collaboration . . . A286 (1989) 49
Ruschin, S., see Sheena, Z. . . . A285 (1989) 224
Ruschin, S., see Sheena, Z. . . . A285 (1989) 239
Rush, C.J., see Kodama, K. . . . A289 (1990) 146
Rushbrooke, J.G., see Alitti, J. . . . A283 (1989) 646
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Russ, J.R., see Kodama, K. . . . A289 (1990) 146

Russo, G., see Bellia, G. . . . A284 (1989) 399
Russo, G., see Bradaschia, C. . . . A289 (1990) 518
Rust, D.R., see Abrams, G. . . . A281 (1989) 55
Ruster, W., F. Ames, H.-J. Kluge, E.-W. Otten, D. Rehklau, F. Scheerer, G. Herrmann, C. Mühleck, J. Riegel, H. Rimke, P. Spattelberger and N. Trautmann, A resonance ionization mass spectrometer as an analytical instrument for trace analysis . . . A281 (1989) 547
Rusznyak, P., see Marsden, R.G. . . . A290 (1990) 211
Rusznyak, P., see Afonin, V.V. . . . A290 (1990) 223
Ryazantsev, A.V., see Bamburov, N.S. . . . A289 (1990) 265
Rybakov, B.V., see Belskiy, A.N. . . . A282 (1989) 610
Rybakov, B.V., see Belskiy, A.N. . . . A282 (1989) 625
Ryckewaert, G., see Arnould, M. . . . A282 (1989) 99
Rykaczewski, H., see Adeva, B. . . . A289 (1990) 35
Rykaczewski, H., see Adeva, B. . . . A289 (1990) 335
Rykaczewski, H., see Adeva, B. . . . A290 (1990) 115
Rykalin, V.I., see Bamburov, N.S. . . . A289 (1990) 265
Rylin, A.V., see Aulchenko, V.M. . . . A289 (1990) 468
Ryšavý, M., see Shakun, N.G. . . . A281 (1989) 37
Ryzhov, V.N., see Golovatjuk, V.M. . . . A288 (1990) 254
Rzaev, R.A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269

Saavedra, O., see Bigongiari, A. . . . A288 (1990) 529
Sabev, C., see ASTERIX Collaboration . . . A286 (1989) 76
Sablik, M.J., see Weiss, L.A. . . . A281 (1989) 628
Sablik, M.J., J.D. Winningham and J.R. Scherrer, Design and simulation of the symmetric SPI: A 2D energy/angle spectrograph for all charged species . . . A286 (1989) 306
Sacco, B., see Agnetta, G. . . . A281 (1989) 197
Sacquin, Y., see Brand, C. . . . A283 (1989) 567
Sadler, G., see Loughlin, M.J. . . . A281 (1989) 184
Sadrozinski, H.F.W., see Abrams, G. . . . A281 (1989) 55
Sadrozinski, H.F.-W., Development of radiation-hard front-end electronics at UC Santa Cruz . . . A283 (1989) 810
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Sadykova, R.Sh., see Babanov, Yu.A. . . . A282 (1989) 646
Sagawa, H., see Kitagaki, T. . . . A281 (1989) 81
Saget, G., see Brand, C. . . . A283 (1989) 567
Sahnie, V.S., see Devyatov, V.G. . . . A282 (1989) 688
Sahuc, P., see Adeva, B. . . . A289 (1990) 35
Saibene, S., see Butz, T. . . . A284 (1989) 417
Saile, V., see Reininger, R. . . . A288 (1990) 343
Sailor, W.C., see Gavron, A. . . . A290 (1990) 139
Saint-Martin, J., see AMORPHA Collaboration . . . A281 (1989) 528
Saito, To., see Nishizawa, M. . . . A285 (1989) 532
Saito, To., see Amenomori, M. . . . A288 (1990) 619
Sajjad, M., see Lambrecht, R.M. . . . A282 (1989) 296
Sakae, T., see Urase, K. . . . A290 (1990) 401
Sakai, E., see Nakatani, H. . . . A283 (1989) 303
Sakata, M., see Nishizawa, M. . . . A285 (1989) 532
Sakata, M., see Amenomori, M. . . . A288 (1990) 619
Sakharov, V.P., see Bamburov, N.S. . . . A289 (1990) 265
Sakrejda, G., see Garabatos, C. . . . A283 (1989) 553
Sakrejda, G., see Cherney, M. . . . A283 (1989) 796
Sakrejda, I., see Garabatos, C. . . . A283 (1989) 553
Sakrejda, I., see Cherney, M. . . . A283 (1989) 796
Sakuragi, S., see Kubota, S. . . . A289 (1990) 253
Sala, A., see Park, S. . . . A289 (1990) 496
Salabura, P., see Stiebing, K.E. . . . A282 (1989) 206
Salicio, J., see Adeva, B. . . . A289 (1990) 35
Salicio, J., see Adeva, B. . . . A289 (1990) 335
Salicio, J., see Adeva, B. . . . A290 (1990) 115

Salin, P., see Aubert, B. . . . A286 (1989) 147
Saliou, C., see Friant, A. . . . A283 (1989) 318
Salman, S., see Chi, C.Y. . . . A281 (1989) 448
Salmon, D., see Bagliesi, G. . . . A286 (1989) 61
Salmon, G., see ZEUS-UK Collaboration . . . A283 (1989) 477
Salmon, G.L., see Harnew, N. . . . A283 (1989) 781
Salt, J., see Benlloch, J.M. . . . A290 (1990) 327
Salvati, M., see Agnetta, G. . . . A281 (1989) 197
Salvato, G., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Salvo, C., see Fernandes, P. . . . A288 (1990) 549
Samimi, M., B. Biglari, M. Hage-Ali, J.M. Koebel and P. Siffert, Structural defects in high resistivity cadmium telluride . . . A283 (1989) 243
Samimi, M., see Biglari, B. . . . A283 (1989) 249
Samimi, M., see Siffert, P. . . . A283 (1989) 363
Sampietro, M., see Gatti, E. . . . A287 (1990) 513
Sampietro, M., see Longoni, A. . . . A288 (1990) 35
Sampietro, M., see Rehak, P. . . . A288 (1990) 168
Sampietro, M., see Strüder, L. . . . A288 (1990) 227
Sánchez, E., see Benlloch, J.M. . . . A290 (1990) 327
Sánchez, E.A., see De Ferrariis, L.F. . . . A287 (1990) 642
Sánchez, E.A., see De Ferrariis, L.F. . . . A281 (1989) 43
Sanchis, E., see Benlloch, J.M. . . . A290 (1990) 327
Sancho, A., see Brand, C. . . . A283 (1989) 567
Sanders, D., see Hungerford, D. . . . A286 (1989) 155
Sandi, H., see Marinescu, L. . . . A287 (1990) 127
Sándor, Sz., see Török, Sz. . . . A282 (1989) 499
Sandorfi, A.M., see Thorn, C.E. . . . A285 (1989) 447
Sandorfi, A.M., see Dowell, D.H. . . . A286 (1989) 183
Sandoval, A., see Lone, S. . . . A288 (1990) 507
Sandoval, A., see Vasileiadis, G. . . . A289 (1990) 618
Sandukovsky, V.G., see Barabash, L.S. . . . A288 (1990) 375
Sandweiss, J., see Beringer, R. . . . A290 (1990) 370
Sanford, T.W.L., see Mastin, G.A. . . . A286 (1989) 9
Sangster, T.C., see Fowler, M.M. . . . A281 (1989) 517
Sanguinetti, G., see Bagliesi, G. . . . A286 (1989) 61
Sankey, D.P.C., see Beck, G.A. . . . A283 (1989) 471
Sankey, D.P.C., see Grässler, H. . . . A283 (1989) 622
Sano, H., see Akei, M. . . . A283 (1989) 46
Sano, H., see Tanaka, M. . . . A284 (1989) 296
Sansoni, A., see Bertolucci, S. . . . A289 (1990) 375
Sansum, R.A., see Akrawy, M. . . . A290 (1990) 76
Santiard, J.C., see Bouclier, R. . . . A283 (1989) 509
Santonico, R., see Bertino, M. . . . A283 (1989) 654
Santonico, R., see Bacilieri, P. . . . A289 (1990) 610
Sapienza, P., see Bellia, G. . . . A284 (1989) 399
Sapru, M.L., see Bhat, C.L. . . . A281 (1989) 207
Sarabura, M., see E-802 Collaboration . . . A290 (1990) 41
Saraf, S.K., N. Al-Niemi, C.E. Brient, S.M. Grimes and R.S. Pedroni, Determination of the light response of BC-404 plastic scintillator for ^{3}He and ^{4}He with energies between 3 and 13 MeV . . . A288 (1990) 451
Saran, S., see Adeva, B. . . . A289 (1990) 35
Saris, F.W., see Urbanus, W.H. . . . A281 (1989) 28
Sasaki, M., see Kitagaki, T. . . . A281 (1989) 81
Sasaki, O., see Akei, M. . . . A283 (1989) 46
Sasaki, O., see Yamashita, T. . . . A283 (1989) 709
Sasao, N., see Hemmi, Y. . . . A281 (1989) 462
Sasao, N., see Yamashita, T. . . . A283 (1989) 709
Sassu, A., see Bosi, F. . . . A283 (1989) 532
Sato, I., see Enomoto, A. . . . A281 (1989) 1
Sato, M., see Kitagaki, T. . . . A281 (1989) 81
Sato, Y., see Kodama, K. . . . A289 (1990) 146
Satoh, K., S. Kamohara and E. Arai, Three-dimensional field calculation for engineering design of IH linacs . . A287 (1990) 353

Satyanarayana, B., see Adarkar, H. ... A284 (1989) 422
Sauer, M., see Bongardt, K. ... A287 (1990) 273
Sauli, F., see Bouclier, R. ... A283 (1989) 509
Sauli, F., see Charpak, G. ... A283 (1989) 596
Sauli, F., see Fonte, P. ... A283 (1989) 658
Sauli, F., see Solomey, N. ... A283 (1989) 673
Sauli, F., see Jibaly, M. ... A283 (1989) 692
Sauli, F., see Peskov, V. ... A283 (1989) 786
Sauli, F., see Astier, P. ... A289 (1990) 626
Saulys, A.C., see Etkin, A. ... A283 (1989) 557
Saunders, B.J., see Akrawy, M. ... A290 (1990) 76
Sauvage, D., see Breskin, A. ... A286 (1989) 251
Sauvage, G., see Adeva, B. ... A289 (1990) 35
Savicheva, E.P., see Barakhtin, B.K. ... A282 (1989) 651
Savin, A., see L3 Collaboration ... A285 (1989) 403
Savin, A., see Adeva, B. ... A289 (1990) 35
Savinov, G.A., see Gaponov, Yu.A. ... A282 (1989) 695
Savinov, G.A., see Anashkin, E.V. ... A283 (1989) 752
Sawallisch, P., see Aderholz, M. ... A284 (1989) 311
Sawamura, M., see Kawarasaki, Y. ... A285 (1989) 338
Saxon, D.H., see ZEUS-UK Collaboration ... A283 (1989) 477
Sazonova, T.E., see Konstantinov, A.A. ... A286 (1989) 369
Scafi, M., see Incicchitti, A. ... A289 (1990) 236
Scampoli, P., see Ansari, R. ... A288 (1990) 240
Scarlatella, M., see Benvenuti, A.C. ... A284 (1989) 339
Scarsi, L., see Agnetta, G. ... A281 (1989) 197
Schaad, M.W., see Abrams, G. ... A281 (1989) 55
Schaad, T., see Adeva, B. ... A289 (1990) 35
Schacher, J., see Borer, K. ... A286 (1989) 128
Schächter, L. and A. Ron, Smith–Purcell amplifier in a regime of exponential gain ... A285 (1989) 261
Schäcke, D., see ZEUS Calorimeter Group ... A290 (1990) 95
Schaefer, U., see ASTERIX Collaboration ... A286 (1989) 76
Schaeffer, M., see Van Apeldoorn, G. ... A283 (1989) 767
Schaelin, A., see Mittelholzer, M. ... A288 (1990) 110
Schaerf, C., see Thorn, C.E. ... A285 (1989) 447
Schaerpf, O. and N. Stuesser, Recent progress in neutron polarizers ... A284 (1989) 208
Schäfer, F.P., see Hartmann, W. ... A286 (1989) 1
Schafheitle, B., see Adeva, B. ... A289 (1990) 35
Schaile, D., see Fischer, H.M. ... A283 (1989) 492
Schaile, O., see Fischer, H.M. ... A283 (1989) 492
Schaily, R., see FNAL-E581/704 Collaboration ... A290 (1990) 269
Scharlemann, E.T., see Shay, H.D. ... A285 (1989) 163
Scharlemann, E.T., see Jong, R.A. ... A285 (1989) 379
Schatz, H., see Fretwurst, E. ... A288 (1990) 1
Scheerer, F., see Ruster, W. ... A281 (1989) 547
Schefer, J., P. Fischer, H. Heer, A. Isacson, M. Koch and R. Thut, A versatile double-axis multicounter neutron powder diffractometer ... A288 (1990) 477
Schegelsky, V., see Adeva, B. ... A289 (1990) 35
Schempp, A., see Wojke, R.G.C. ... A288 (1990) 329
Schempp, A., see Urbanus, W.H. ... A290 (1990) 1
Schenuit, E., see Johannsen, K. ... A283 (1989) 702
Schenuit, E., see Groh, J. ... A283 (1989) 730
Scherrer, J.R., see Sablik, M.J. ... A286 (1989) 306
Schetkovsky, A., see Adeva, B. ... A289 (1990) 35
Schetkovsky, A., see Adeva, B. ... A289 (1990) 335
Schetkovsky, A., see Adeva, B. ... A290 (1990) 115
Scheurer, J.N., see Azaiez, F. ... A281 (1989) 133
Schiavon, P., see FNAL-E581/704 Collaboration ... A290 (1990) 269
Schieber, M., see Steinberg, S. ... A283 (1989) 123
Schieber, M., see Burger, A. ... A283 (1989) 130

Schieber, M., C. Ortale, L. Van den Berg, W. Schnepple, L. Keller, C.N.J. Wagner, W. Yelon, F. Ross, G. Georgeson and F. Milstein, Correlation between mercuric iodide detector performance and crystalline perfection A283 (1989) 172
Schieber, M.M., see Skinner, N.L. A283 (1989) 119
Schieler, H., see Doll, P. A285 (1989) 464
Schild, F., see Adeva, B. A289 (1990) 35
Schilling, F., see Bodmann, B. A286 (1989) 214
Schilling, F., see Drexlin, G. A289 (1990) 490
Schillsott, R., see Adeva, B. A289 (1990) 35
Schinzel, D., see Bonetti, S. A286 (1989) 135
Schioppa, M., see LAA-LAD Group A289 (1990) 351
Schlatter, D., see Amendolia, S.R. A283 (1989) 573
Schlatter, D., see Barczewski, T. A289 (1990) 176
Schlesinger, T.E., see James, R.B. A283 (1989) 188
Schlewer, B., see Heugel, J. A287 (1990) 109
Schlueter, R.D., see Jong, R.A. A285 (1989) 379
Schmelling, M., see Amendolia, S.R. A283 (1989) 573
Schmelling, M., see Barczewski, T. A289 (1990) 176
Schmelzbach, P.A., see Clajus, M. A281 (1989) 17
Schmidke, W.B., see Abrams, G. A281 (1989) 55
Schmidt, B., see Verbitskaya, E.M. A281 (1989) 167
Schmidt, E., see Kraft, D. A282 (1989) 199
Schmidt, F.K., see Drexlin, G. A289 (1990) 490
Schmidt, K.-H., see Münzenberg, G. A282 (1989) 28
Schmidt, K.-H., see Geissel, H. A282 (1989) 247
Schmidt, K.-H., see Blank, B. A286 (1989) 160
Schmidt, R., see Matulewicz, T. A289 (1990) 194
Schmidt, W.F., see Bonetti, S. A286 (1989) 135
Schmidt-Böcking, H., see Euler, J. A287 (1990) 374
Schmidt-Böcking, H., see Dangendorf, V. A289 (1990) 322
Schmidt-Ott, W.-D., see Bazin, D. A281 (1989) 117
Schmidt-Ott, W.-D., U. Bosch and Th. Möhlenkamp, PIN-diodes for electron detection A285 (1989) 459
Schmidt-Parzefall, W., see Michel, E. A283 (1989) 544
Schmiedmayer, J., The equivalence of the gravitational and interial mass of the neutron A284 (1989) 59
Schmiedmayer, J., H. Rauch and P. Riehs, The electric polarizability of the neutron A284 (1989) 137
Schmitt, F., see Krämer, D. A287 (1990) 268
Schmitt, M.J., see McVey, B.D. A285 (1989) 186
Schmitt, P., see Adeva, B. A289 (1990) 35
Schmitt, P., see Adeva, B. A289 (1990) 335
Schmitt, P., see Adeva, B. A290 (1990) 115
Schmitz, D., see Adeva, B. A289 (1990) 35
Schmitz, P., see Adeva, B. A289 (1990) 35
Schmoetten, E., see Vasileiadis, G. A289 (1990) 618
Schmor, P.W., see Law, W.M. A290 (1990) 308
Schneegans, M., see Adeva, B. A289 (1990) 35
Schneekloth, U., see Benvenuti, A.C. A284 (1989) 339
Schneekloth, U., see SLD-WIC Collaboration A289 (1990) 449
Schneekloth, U., see Benvenuti, A.C. A289 (1990) 463
Schneekloth, U., see Benvenuti, A. A289 (1990) 577
Schneekloth, U., see Benvenuti, A.C. A290 (1990) 353
Schneevogt, E., see Adeva, B. A289 (1990) 35
Schneider, J.R., see Rollason, A.J. A281 (1989) 147
Schneider, J.R., see Manninen, S. A290 (1990) 242
Schneider, M., see Adeva, B. A289 (1990) 35
Schneider, M.B. and N.K. Gregory, A microcomputer-based multiparameter nuclear data acquisition system (*Letter to the Editor*) A290 (1990) 613
Schnepple, W., see Schieber, M. A283 (1989) 172
Schnepple, W.F., see James, R.B. A283 (1989) 188
Schnepple, W.F., see Felter, T.E. A283 (1989) 195
Schnepple, W.F., see Burger, A. A283 (1989) 232
Schnepple, W.F., see Van den Berg, L. A283 (1989) 335

Schnitter, H., see Rohrer, L. . . . A287 (1990) 170
Schnizer, B., see Carli, Ch. . . . A283 (1989) 723
Schnopper, H.W., see Oed, A. . . . A284 (1989) 223
Schoch, B., see Matulewicz, T. . . . A289 (1990) 194
Schoeneberg, U., B.J. Hosticka, J. Fent, H. Oberlack and G. Zimmer, A CMOS readout system for very large detector capacitances . . . A288 (1990) 191
Schoenmaekers, W., see Verplancke, J. . . . A288 (1990) 287
Schoeps, W., see Białkowski, J. . . . A287 (1990) 532
Schölermann, H., see Böttger, R. . . . A282 (1989) 358
Scholz, M., see Kraft-Weyrather, W. . . . A282 (1989) 22
Schönbacher, H. and F. Coninckx, Doses to the CERN 450-GeV super proton synchrotron and an estimate of radiation damage . . . A288 (1990) 612
Schönholz, R., see Siffert, P. . . . A283 (1989) 363
Schöntag, M., see Adeva, B. . . . A289 (1990) 35
Schooneveld, E.M., see Wouters, S.E. . . . A288 (1990) 44
Schooneveld, E.M., C.W.E. Van Eijk, R.W. Hollander, S.A. Audet and S.E. Wouters, A silicon strip detector for β-radiochromatography . . . A288 (1990) 250
Schotanus, D.J., see Adeva, B. . . . A289 (1990) 35
Schotanus, P., P. Dorenbos, C.W.E. Van Eijk and H.J. Lamfers, Suppression of the slow scintillation light output of BaF_2 crystals by La^{3+} doping . . . A281 (1989) 162
Schotanus, P., see Hollander, R.W. . . . A283 (1989) 448
Schotanus, P., P. Dorenbos, C.W.E. Van Eijk and R.W. Hollander, Comment on "Detection of LaF_3 scintillation light in a photosensitive wire chamber" (*Letter to the Editor*) . . . A284 (1989) 531
Schött, H.-J., see Münzenberg, G. . . . A282 (1989) 28
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Schrack, R.A., see Wasson, O.A. . . . A282 (1989) 194
Schramm, D.N. and L. Kawano, Cosmology and the neutron lifetime . . . A284 (1989) 84
Schreckenbach, K., see Beda, A.G. . . . A284 (1989) 77
Schreckenbach, K., G. Azuelos, P. Grivot, R. Kossakowski and P. Liaud, Neutron decay measurements with a helium-filled time projection chamber . . . A284 (1989) 120
Schreiber, O., see ASTERIX Collaboration . . . A286 (1989) 76
Schreiber, S., see Fischer, H.M. . . . A283 (1989) 492
Schroder, I.G., see Arif, M. . . . A284 (1989) 216
Schröder, W.U., see Tõke, J. . . . A288 (1990) 406
Schroeder, L.S., see Yegneswaran, A. . . . A290 (1990) 61
Schuhmacher, H., see Böttger, R. . . . A282 (1989) 358
Schuijlenburg, H., see Adeva, B. . . . A289 (1990) 35
Schulte, R., see Adeva, B. . . . A289 (1990) 35
Schulte, S., see Grässler, H. . . . A283 (1989) 622
Schultheiss, Ch., Moving macro surface charges: an algorithm for space charge calculations . . . A287 (1990) 551
Schultz, D., see Aston, D. . . . A283 (1989) 582
Schultz, D., see Aston, D. . . . A283 (1989) 590
Schultz von Dratzig, A., see Adeva, B. . . . A289 (1990) 35
Schultze, K., see Adeva, B. . . . A289 (1990) 35
Schulz, F., see Ernst, R. . . . A287 (1990) 337
Schumacher, R., see Garabatos, C. . . . A283 (1989) 553
Schumacher, R., see Cherney, M. . . . A283 (1989) 796
Schumm, B.A., see Abrams, G. . . . A281 (1989) 55
Schumm, B.A., see Alexander, J.P. . . . A283 (1989) 519
Schussler, F., see AMORPHA Collaboration . . . A281 (1989) 528
Schuster, K., see Kemmer, J. . . . A288 (1990) 92
Schuster, K.F., see Strüder, L. . . . A288 (1990) 227
Schuster, W., see Clajus, M. . . . A281 (1989) 17
Schwab, Th., see Geissel, H. . . . A282 (1989) 247
Schwab, W., see Poth, H. . . . A287 (1990) 328
Schwarz, A., see Strüder, L. . . . A288 (1990) 227
Schwarz, A., see Adolphsen, C. . . . A288 (1990) 257
Schwarz, A.S., see Abrams, G. . . . A281 (1989) 55
Schwenke, J., see Adeva, B. . . . A289 (1990) 35
Schwering, G., see Adeva, B. . . . A289 (1990) 35
Sciacca, C., see Adeva, B. . . . A289 (1990) 35

Sciacca, C., see Adeva, B. . . . A289 (1990) 335
Sciacca, C., see Adeva, B. . . . A290 (1990) 115
Scigocki, D., see Peskov, V. . . . A283 (1989) 786
Sciubba, A., see Angelini, C. . . . A281 (1989) 50
Sciubba, A., see WA84 Collaboration . . . A289 (1990) 342
Sciubba, A., see WA84 Collaboration . . . A289 (1990) 356
Scobel, W., see Finsel, G. . . . A290 (1990) 450
Scott, H.L. and K.W. Marlow, Gamma-ray emission probabilities of the daughters of ^{238}U . . . A286 (1989) 549
Scott, R.D., see Byrne, J. . . . A284 (1989) 116
Scuderi, V., see Ciavola, G. . . . A287 (1990) 21
Sealock, R.M., see Dowell, D.H. . . . A286 (1989) 183
Sealy, B.J., see Mingxiu, M. . . . A288 (1990) 303
Seeliger, D., see Gohs, U. . . . A282 (1989) 341
Sefzick, T., K. Kilian, W. Oelert and G. Wienands, A system for simulation of scintillator light signals . . . A288 (1990) 571
Segall, S.B. and J.F. Ostiguy, Beam spill in long wigglers . . . A285 (1989) 355
Segers, D., see Paridaens, J. . . . A287 (1990) 359
Seghier, D., see Benrachi, F. . . . A281 (1989) 137
Segler, S., see Carithers, W.C. . . . A289 (1990) 388
Seibert, G., Crystal growth in the framework of the ESA microgravity programme and future flight opportunities . . . A284 (1989) 476
Seidel, S.C., see Michel, E. . . . A283 (1989) 544
Seiden, A., see Abrams, G. . . . A281 (1989) 55
Seiden, A., see Sadrozinski, H.F.-W. . . . A288 (1990) 76
Seidl, P.A., see Yegneswaran, A. . . . A290 (1990) 61
Seidl, W., see Bonetti, S. . . . A286 (1989) 135
Seiler, P.G., see Fabbretti, R. . . . A287 (1990) 413
Seiler, P.G., see Adeva, B. . . . A289 (1990) 35
Seiler, P.G., see Adeva, B. . . . A289 (1990) 335
Seiler, P.G., see Adeva, B. . . . A290 (1990) 115
Seki, S., G. Korschinek and J. Sellmair, Observation of microparticles produced in an acceleration tube . . . A287 (1990) 72
Sekulin, R.L., see Aderholz, M. . . . A284 (1989) 311
Seligmann, B., see Poth, H. . . . A287 (1990) 328
Sellden, B., see Angelis, A.L.S. . . . A283 (1989) 762
Seller, P., see Dijkstra, H. . . . A289 (1990) 400
Sellmair, J., see Seki, S. . . . A287 (1990) 72
Selonke, F., see ZEUS Calorimeter Group . . . A289 (1990) 115
Selonke, F., see Drews, G. . . . A290 (1990) 335
Selvaggi, G., see Bagliesi, G. . . . A286 (1989) 61
Seman, M., see Budagov, Yu.A. . . . A284 (1989) 433
Semenescu, G., see Marinescu, L. . . . A287 (1990) 127
Semenov, A.A., see Budagov, Yu.A. . . . A284 (1989) 433
Semkow, T.M., G. Mehmood, P.P. Parekh and M. Virgil, Coincidence summing in gamma-ray spectroscopy . . . A290 (1990) 437
Semrad, D., see Golser, R. . . . A282 (1989) 185
Senecha, V.K., see Bhat, C.L. . . . A281 (1989) 207
Sens, J.C., see Adeva, B. . . . A289 (1990) 35
Sephton, A.J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Sepman, S.V., see Konstantinov, A.A. . . . A286 (1989) 369
Serebrov, A.P., see Kharitonov, A.G. . . . A284 (1989) 98
Serebrov, A.P., High flux reactor PIK and the associated research program . . . A284 (1989) 212
Seres, Z., see Naviliat-Cuncic, O. . . . A287 (1990) 487
Sergienko, P.M., see Gadzhiev, A.M. . . . A282 (1989) 502
Sergienko, P.M., see Gadzhiev, A.M. . . . A282 (1989) 728
Serikov, A.V., see Babanov, Yu.A. . . . A282 (1989) 646
Sernicki, J., First Townsend coefficient of organic vapour in avalanche counters . . . A288 (1990) 555
Serov, A.V., see Alexeev, V.I. . . . A282 (1989) 436
Serov, A.V., see Alexeev, V.I. . . . A282 (1989) 439
Servoli, L., see Benvenuti, A.C. . . . A284 (1989) 339
Servoli, L., see SLD-WIC Collaboration . . . A289 (1990) 449
Servoli, L., see Benvenuti, A.C. . . . A289 (1990) 463
Servoli, L., see Benvenuti, A. . . . A289 (1990) 577
Servoli, L., see Benvenuti, A.C. . . . A290 (1990) 353

Sessler, A.M., see Sharp, W.M. . . . A285 (1989) 217
Seto, R., see Chi, C.Y. . . . A281 (1989) 448
Settles, R., see Amendolia, S.R. . . . A283 (1989) 573
Settles, R., see Barczewski, T. . . . A289 (1990) 176
Sewell, S., see Aderholz, M. . . . A284 (1989) 311
Shabelnikov, L.G., see Aristov, V.V. . . . A282 (1989) 497
Shah, K.S., see Lund, J.C. . . . A283 (1989) 299
Shah, K.S., see Squillante, M.R. . . . A288 (1990) 79
Shahal, O. and R. Rohatgi, Pulsed wire magnetic field measurements on a 4.3 m long wiggler . . . A285 (1989) 299
Shahal, O., see Ben-Zvi, I. . . . A287 (1990) 93
Shakun, N.G. and M. Ryšavý, Programs for the calculation of dynamics of charged particles in three-dimensional electric and magnetic fields . . . A281 (1989) 37
Shambroom, W.D., see Allaby, J.V. . . . A281 (1989) 291
Shapiro, G., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Shapiro, S., see Aston, D. . . . A283 (1989) 582
Shapiro, S., see Aston, D. . . . A283 (1989) 590
Sharapa, A.N. and A.V. Shemyakin, Efficient recuperator of intense electron beam energy . . . A289 (1990) 14
Sharma, A., see LAA-LAD Group . . . A289 (1990) 351
Sharp, W.E., see Szücs, I.T. . . . A290 (1990) 228
Sharp, W.M., W.M. Fawley, S.S. Yu, A.M. Sessler, R. Bonifacio and L. De Salvo Souza, Simulation of superradiant free electron lasers . . . A285 (1989) 217
Shaw, D., see ZEUS-UK Collaboration . . . A283 (1989) 477
Shaw, N.M., see Fujii, Y. . . . A283 (1989) 665
Shaw, T.B., see ZEUS-UK Collaboration . . . A283 (1989) 477
Shay, H.D., G.A. Deis, E.T. Scharlemann and T.E. Smith Jr, Tapering FEL amplifiers in wiggler period and field . . . A285 (1989) 163
Shcherbakov, A.A., see Boldyshev, V.P. . . . A282 (1989) 390
Sheena, Z., A. Gover and S. Ruschin, Simulation and animation of electron motion in the ponderomotive potential of laser beats . . . A285 (1989) 224
Sheena, Z., S. Ruschin, A. Gover and H. Kleinman, Experimental study of the interaction of an electron beam with the ponderomotive potential of laser beats . . . A285 (1989) 239
Sheer, I., see Adeva, B. . . . A289 (1990) 35
Shekhtman, L.I., see Baru, S.E. . . . A283 (1989) 431
Sheldon, P.D., see Chi, C.Y. . . . A281 (1989) 448
Shelestov, V.M., see Korystova, A.F. . . . A282 (1989) 506
Shelihov, V.I., see Erin, S.V. . . . A283 (1989) 682
Shemyakin, A.V., see Sharapa, A.N. . . . A289 (1990) 14
Shen Pei-Ruo, see Hungerford, D. . . . A286 (1989) 155
Shepard, K.W., see Den Hartog, P.K. . . . A287 (1990) 235
Sheromov, M.A., see Popov, A.N. . . . A282 (1989) 510
Sheromov, M.A., see Zschech, E. . . . A282 (1989) 586
Sheromov, M.A., see Gaponov, Yu.A. . . . A282 (1989) 695
Sheromov, M.A., see Gaponov, Yu.A. . . . A282 (1989) 698
Sheronova, S.M., see Szücs, I.T. . . . A290 (1990) 228
Sherrill, B., see Geissel, H. . . . A282 (1989) 247
Sherwood, P., see Imrie, D.C. . . . A283 (1989) 515
Sherwood, P., see Anderson, B.E. . . . A283 (1989) 650
Shevchenko, S., see L3 Collaboration . . . A285 (1989) 403
Shevchenko, S., see Adeva, B. . . . A289 (1990) 35
Shevchenko, V., see L3 Collaboration . . . A285 (1989) 403
Shevchenko, V., see Adeva, B. . . . A289 (1990) 35
Shevchenko, Yu.A., see Ignatyev, O.V. . . . A282 (1989) 734
Shevchenko, Yu.A., see Shkola, N.F. . . . A282 (1989) 739
Shevtsov, A.A., see Vorob'eva, E.A. . . . A282 (1989) 615
Shevtsov, A.A., see Timchenko, N.A. . . . A282 (1989) 732
Shi, W., see Burger, A. . . . A283 (1989) 232
Shi, X.R., see Adeva, B. . . . A289 (1990) 35
Shibata, H., see Kodama, K. . . . A289 (1990) 146
Shibata, M., see Zhang, C.S. . . . A283 (1989) 78
Shibata, M., see Nishizawa, M. . . . A285 (1989) 532
Shibata, M., see Amenomori, M. . . . A288 (1990) 619

Shibata, S., see Mitsui, K. . . . A290 (1990) 565
Shibata, T., see Akei, M. . . . A283 (1989) 46
Shibuya, H., see Kodama, K. . . . A289 (1990) 146
Shield, P.D., see ZEUS-UK Collaboration . . . A283 (1989) 477
Shield, P.D., see Harnew, N. . . . A283 (1989) 781
Shikanov, A.S., see Alexandrov, Yu.M. . . . A282 (1989) 551
Shikanov, A.S., see Alexandrov, Yu.M. . . . A282 (1989) 716
Shikanov, A.S., see Alexandrov, Yu.M. . . . A282 (1989) 725
Shikazono, N., see Sugiyama, Y. . . . A281 (1989) 512
Shikazono, N., see Kawarasaki, Y. . . . A285 (1989) 338
Shilin, Yu.N., see Lider, V.V. . . . A282 (1989) 632
Shiloh, J., see Ben-Zvi, I. . . . A287 (1990) 93
Shilshtein, S.Sh., see Podurets, K.M. . . . A290 (1990) 419
Shima, M., see Nishizawa, M. . . . A285 (1989) 532
Shima, M., see Amenomori, M. . . . A288 (1990) 619
Shima, T., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Shin, G.R. and J. Rafelski, Pion production for MuCF . . . A287 (1990) 565
Shin, T.S., see Kodama, K. . . . A289 (1990) 146
Shipitsyn, Yu.G., see Tarasov, L.S. . . . A282 (1989) 669
Shirai, T., see Nishizawa, M. . . . A285 (1989) 532
Shirai, T., see Amenomori, M. . . . A288 (1990) 619
Shirato, S., see Kubota, S. . . . A285 (1989) 436
Shkola, N.F., see Ignatyev, O.V. . . . A282 (1989) 734
Shkola, N.F. and Yu.A. Shevchenko, An updated program-controlled analog processor, model AP-006, for semiconductor detector spectrometers . . . A282 (1989) 739
Shmakov, K., see L3 Collaboration . . . A285 (1989) 403
Shmakov, K., see Adeva, B. . . . A289 (1990) 35
Shoa, M., see Beard, C. . . . A286 (1989) 117
Shoemaker, D., see Bradaschia, C. . . . A289 (1990) 518
Shor, A., see E-802 Collaboration . . . A290 (1990) 41
Shorin, V.S., see Sosnin, A.N. . . . A282 (1989) 354
Shotter, A.C., see Thomas, S.L. . . . A288 (1990) 212
Shotter, A.C., see Davinson, T. . . . A288 (1990) 245
Shoup, A., see Aston, D. . . . A283 (1989) 582
Shoup, A., see Aston, D. . . . A283 (1989) 590
Shoutko, V., see L3 Collaboration . . . A285 (1989) 403
Shoutko, V., see L3 Collaboration . . . A288 (1990) 364
Shoutko, V., see Adeva, B. . . . A289 (1990) 35
Shpinkov, I.N., see Kamenskikh, I.A. . . . A282 (1989) 599
Shpinkov, I.N., see Belskiy, A.N. . . . A282 (1989) 625
Shui Yongqing, see Su Tongling . . . A287 (1990) 452
Shulgin, B.V., see Ivanov, V.Y. . . . A282 (1989) 559
Shul'ginov, A.V., see Berlev, A.I. . . . A283 (1989) 614
Shulman, J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Shumilov, E., see L3 Collaboration . . . A285 (1989) 403
Shumilov, E., see L3 Collaboration . . . A288 (1990) 364
Shumilov, E., see Adeva, B. . . . A289 (1990) 35
Shutte, N.M., see Afonin, V.V. . . . A290 (1990) 223
Shutte, N.M., see Szücs, I.T. . . . A290 (1990) 228
Shvajkovskij, V.V., see Kuznetsov, A.S. . . . A282 (1989) 416
Shvetsov, V.N., see Kharitonov, A.G. . . . A284 (1989) 98
Shvetsov, V.R., see Babanov, Yu.A. . . . A282 (1989) 646
Si Houzhi, see Zhang Zhongmu . . . A287 (1990) 33
Sidorchuk, S.I., see Bogdanov, D.D. . . . A289 (1990) 205
Sidorin, K.K., see Alexandrov, Yu.M. . . . A282 (1989) 580
Sidwell, R.A., see Kodama, K. . . . A289 (1990) 146
Siebert, H.-W., Neutron decay, semileptonic hyperon decays and the Cabibbo model . . . A284 (1989) 94
Siedling, R., see Adeva, B. . . . A289 (1990) 35
Siegert, H. and H. Janssen, Precise determination of gamma-ray peak areas . . . A286 (1989) 415
Siegmund, T., see Michel, E. . . . A283 (1989) 544
Siegrist, P., see Brand, C. . . . A283 (1989) 567

Siemann, R.H., see Jackson, G. . . . A286 (1989) 17
Siffert, P., see Samimi, M. . . . A283 (1989) 243
Siffert, P., see Biglari, B. . . . A283 (1989) 249
Siffert, P., B. Biglari, M. Samimi, M. Hage-Ali, J.M. Koebel, R. Nitsche, M. Bruder, R. Dian and R. Schönholz, Characterization of CdTe crystals grown under microgravity conditions . . . A283 (1989) 363
Sigaud, J., see Dei-Cas, R. . . . A285 (1989) 320
Signarbieux, G., see Simon, G. . . . A286 (1989) 220
Sikora, J., see Noé, J.W. . . . A287 (1990) 240
Silberman, E., see Burger, A. . . . A283 (1989) 130
Silberman, E., see Burger, A. . . . A283 (1989) 232
Silver, E.H., see Luke, P.N. . . . A289 (1990) 406
Silver, R.N., see Sivia, D.S. . . . A287 (1990) 538
Silver, R.N., see Sivia, D.S. . . . A290 (1990) 492
Silvester, I., see ZEUS-UK Collaboration . . . A283 (1989) 477
Silvestre, E., see Benlloch, J.M. . . . A290 (1990) 327
Silvestris, L., see Bagliesi, G. . . . A286 (1989) 61
Silvestrov, I.G., see Gavrilov, N.G. . . . A282 (1989) 422
Silvestrov, I.G., see Drobyazko, I.B. . . . A282 (1989) 424
Sim, K.S., see Kodama, K. . . . A289 (1990) 146
Simak, V., see Ansari, R. . . . A288 (1990) 240
Simon, G., J. Trochon, F. Brisard and G. Signarbieux, Pulse height defect in an ionization chamber investigated by cold fission measurements . . . A286 (1989) 220
Simon, R.S., see Matulewicz, T. . . . A289 (1990) 194
Simonet, G., see LAA-LAD Group . . . A289 (1990) 351
Simonsson, A., Equilibrium values between intrabeam scattering and electron cooling . . . A284 (1989) 264
Simopoulos, C., see Aston, D. . . . A283 (1989) 582
Simopoulos, C., see Aston, D. . . . A283 (1989) 590
Sims, G.A., see Potvin, L. . . . A281 (1989) 359
Sinclair, C.K., see Chaloupka, H. . . . A285 (1989) 327
Sinclair, F., see Lund, J.C. . . . A283 (1989) 299
Sinev, N.B., see Bashindzhagyan, G.L. . . . A288 (1990) 265
Singh, N., see Chand, B. . . . A284 (1989) 393
Singh, S., see Beuville, E. . . . A288 (1990) 157
Singh, S., see Dytlewski, N. . . . A288 (1990) 641
Singh, S.L., see Ansari, R. . . . A288 (1990) 240
Singsaas, A., see Frank, M. . . . A287 (1990) 583
Sinyansky, O.V., see Avaev, A.V. . . . A282 (1989) 398
Sippach, B., see Möschen, J. . . . A288 (1990) 180
Sippach, W., see ZEUS Calorimeter Group . . . A290 (1990) 95
Sireteanu, T., see Marinescu, L. . . . A287 (1990) 127
Sirota, N.N., see Bagrov, V.G. . . . A282 (1989) 402
Sitar, B., see Budagov, Yu.A. . . . A284 (1989) 433
Sivia, D.S., R.N. Silver and R. Pynn, Optimization of resolution functions for neutron scattering . . . A287 (1990) 538
Sivia, D.S., P. Vorderwisch and R.N. Silver, Deconvolution of data from the filter difference spectrometer: from hardware to maximum entropy . . . A290 (1990) 492
Skinner, N., see Steinberg, S. . . . A283 (1989) 123
Skinner, N.L., C. Ortale, M.M. Schieber and L. Van den Berg, Preparation and evaluation of mercuric iodide for crystal growth . . . A283 (1989) 119
Sklizkov, G.V., see Alexandrov, Yu.M. . . . A282 (1989) 716
Sklizkov, G.V., see Alexandrov, Yu.M. . . . A282 (1989) 725
Skog, G., see Hellborg, R. . . . A287 (1990) 161
Skrinsky, A.N., see Anashin, V.V. . . . A282 (1989) 369
Skrinsky, A.N., see Anashin, V.V. . . . A282 (1989) 386
Skrinsky, A.N., see Drobyazko, I.B. . . . A282 (1989) 424
Skubic, P.L., see Kodama, K. . . . A289 (1990) 146
Slater, J.M., see Quimby, D.C. . . . A285 (1989) 281
Slaughter, A.J., see Beringer, R. . . . A290 (1990) 370
Šlaus, I., see Howell, C.R. . . . A290 (1990) 424
SLD-WIC Collaboration, A. Calcaterra, R. De Sangro, P. De Simone, P.N. Burrows, S.L. Cartwright, S. Gonzalez, A. Lath, U. Schneekloth, D.C. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, M. Loreti, L. Pescara, M. Tecchio, J. Wyss, B. Alpat, R. Battiston, G.M. Bilei, R. Dell'Orso, M. Pauluzzi, L. Servoli, M. Carpinelli, R. Castaldi, C. Vannini, B.L. Byers, D. Kharakh, R.L. Messner, R.W. Zdarko and

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Sleeman, J.C., see Allaby, J.V. . . . A281 (1989) 291
Sloof, G.W., see Duijn, J.H. . . . A283 (1989) 803
Sloof, G.W., see Duijn, J.H. . . . A288 (1990) 486
Sloof, G.W., see Duijn, J.H. . . . A288 (1990) 493
Smadja, G., see Brand, C. . . . A283 (1989) 567
Smakov, A.Ya., see Belskiy, A.N. . . . A282 (1989) 625
Smend, F., see Doll, P. . . . A285 (1989) 464
Smirnov, N., see Adeva, B. . . . A289 (1990) 35
Smith, A., F. Favata and T.Z. Kowalski, Gas pressure and reduced electric field effects in gas scintillation proportional counters . . . A284 (1989) 375
Smith, A., see Dijkstra, H. . . . A289 (1990) 400
Smith, A.E., see Allcock, S.C. . . . A289 (1990) 213
Smith, A.E., P.M. Evans, C.N. Pass, C.W. Band, N. Poffè, L. Stuttgé and R.R. Betts, Development of chemically-milled gridded avalanche counters for use in a time-of-flight telescope . . . A289 (1990) 231
Smith, D., see Coursey, B.M. . . . A290 (1990) 537
Smith, D.L., see Geraldo, L.P. . . . A290 (1990) 499
Smith, E.S., see Allen, R.C. . . . A284 (1989) 347
Smith, G., see Aderholz, M. . . . A284 (1989) 311
Smith, G., see ZEUS Calorimeter Group . . . A289 (1990) 115
Smith, G.A., see Armstrong, T.A. . . . A289 (1990) 109
Smith, G.C., see Debbe, R. . . . A283 (1989) 772
Smith, J.G., see Abrams, G. . . . A281 (1989) 55
Smith, J.G., see Allaby, J.V. . . . A281 (1989) 291
Smith, J.G., see Alexander, J.P. . . . A283 (1989) 519
Smith Jr, T.E., see Shay, H.D. . . . A285 (1989) 163
Smith, K., see Bagliesi, G. . . . A286 (1989) 61
Smith, S., see ZEUS-UK Collaboration . . . A283 (1989) 477
Smolovich, A.M., see Erko, A.I. . . . A282 (1989) 634
Smykov, L.P., see Zanevsky, Yu.V. . . . A283 (1989) 462
Sneh, A. and E. Jerby, Coaxially fed folded foil electromagnet wiggler . . . A285 (1989) 294
Snigirev, A.A., see Erko, A.I. . . . A282 (1989) 634
Snopkov, I.G., see Anashkin, E.V. . . . A283 (1989) 752
Snow, G.R., see UA6 Collaboration . . . A286 (1989) 49
Snow, J.M., see Kodama, K. . . . A289 (1990) 146
Snyder, A., see Abrams, G. . . . A281 (1989) 55
Soderstrom, E., see Abrams, G. . . . A281 (1989) 55
Soga, F., see Akei, M. . . . A283 (1989) 46
Sokoloff, M., see Aston, D. . . . A283 (1989) 590
Sokolov, A.S., see Gavrilov, N.G. . . . A282 (1989) 422
Sokolov, A.S., see Drobyazko, I.B. . . . A282 (1989) 424
Sokolowski, J.S., see Ben-Zvi, I. . . . A287 (1990) 93
Sokolowski, J.S., see Fortuna, G. . . . A287 (1990) 253
Solberg, K., A. Eads, J. Goodwin, P. Pancella, H.O. Meyer, T. Rinckel and A. Ross, Multiwire proportional chamber for the IUCF cooler ring . . . A281 (1989) 283
Sollid, J.E., see Warren, R.W. . . . A285 (1989) 1
Sollid, J.E., see Feldman, D.W. . . . A285 (1989) 11
Sollid, J.E., see Lumpkin, A.H. . . . A285 (1989) 104
Sollid, J.E., D.W. Feldman, R.W. Warren, H. Takeda, S.J. Gitomer, W.J. Johnson and W.E. Stein, Sideband suppression in the Los Alamos free electron laser using a Littrow grating . . . A285 (1989) 147
Sollid, J.E., D.W. Feldman and R.W. Warren, Sideband suppression for free electron lasers . . . A285 (1989) 153
Sollid, J.E., see Takeda, H. . . . A285 (1989) 197
Solodov, E., see Aston, D. . . . A283 (1989) 582
Solodov, E., see Aston, D. . . . A283 (1989) 590
Solodov, E.P., see Anashkin, E.V. . . . A283 (1989) 752
Solomey, N., R. Bouclier, G. Charpak, I. Gouz, D.C. Lamb and F. Sauli, A linear drift chamber readout of a gated multistep avalanche chamber . . . A283 (1989) 673
Soloshenkov, P.S., see Lashaev, S.I. . . . A282 (1989) 315
Soloviev, S.M., see Lashaev, S.I. . . . A282 (1989) 315
Solovyanov, V.L., see FNAL-E581/704 Collaboration . . . A290 (1990) 269

Sommer, W.F., see Sadrozinski, H.F.-W. . . . A288 (1990) 76
Somogyi, A., see Marsden, R.G. . . . A290 (1990) 211
Somogyi, A.J., see McKenna-Lawlor, S. . . . A290 (1990) 217
Sona, P., see Cecchi, A. . . . A282 (1989) 110
Sona, P., see Cecchi, A. . . . A283 (1989) 107
Song, J.S., see Kodama, K. . . . A289 (1990) 146
Sood, A.K., see Devyatov, V.G. . . . A282 (1989) 688
Soroko, L.M., see Astakhov, A.Ya. . . . A283 (1989) 13
Sosnin, A.N. and V.S. Shorin, The evaluation of the average energy parameters for spectra of quasimonoenergetic neutrons produced in (p,n)-reactions on solid tritium targets . . . A282 (1989) 354
Sosnin, A.N., see Barashenkov, V.S. . . . A284 (1989) 509
Souvorov, V., see Adeva, B. . . . A289 (1990) 35
Souvorov, V., see Adeva, B. . . . A289 (1990) 335
Souvorov, V., see Adeva, B. . . . A290 (1990) 115
Souyri, C., see Adeva, B. . . . A289 (1990) 35
Sozzi, G., see UA6 Collaboration . . . A286 (1989) 49
Spain, J.A., see Byrne, J. . . . A284 (1989) 116
Špalek, J., see Budagov, Yu.A. . . . A284 (1989) 433
Spandre, G., see Angelini, F. . . . A283 (1989) 755
Spangler, I., see Adeva, B. . . . A289 (1990) 35
Spassov, V., see Sueva, D. . . . A288 (1990) 460
Spataro, B., see Fernandes, P. . . . A288 (1990) 549
Spattelberger, P., see Ruster, W. . . . A281 (1989) 547
Spencer, E., see Sadrozinski, H.F.-W. . . . A288 (1990) 76
Speziali, V., see Buttler, W. . . . A288 (1990) 140
Speziali, V., see Demicheli, M. . . . A289 (1990) 418
Speziali, V., see Aulchenko, V.M. . . . A289 (1990) 468
Spickermann, T., see Adeva, B. . . . A289 (1990) 35
Spieler, H., see Carithers, W.C. . . . A289 (1990) 388
Spiess, B., see L3 Collaboration . . . A285 (1989) 403
Spiess, B., see L3 Collaboration . . . A288 (1990) 364
Spiess, B., see Adeva, B. . . . A289 (1990) 35
Spillantini, P., see Adeva, B. . . . A289 (1990) 35
Spinka, H., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Spiridonov, A.A., see Zhigunov, V.P. . . . A281 (1989) 480
Spitzer, H., see Johannsen, K. . . . A283 (1989) 702
Spitzer, H., see Groh, J. . . . A283 (1989) 730
Spohrer, G., see Drexlin, G. . . . A289 (1990) 490
Spreadbury, E., see Anderson, B.E. . . . A283 (1989) 650
Springham, S.V., see Davinson, T. . . . A288 (1990) 245
Sproston, M., see Akrawy, M. . . . A290 (1990) 76
Squillante, M.R., see Entine, G. . . . A283 (1989) 282
Squillante, M.R., see Lund, J.C. . . . A283 (1989) 299
Squillante, M.R., G. Entine, E. Frederick, L. Cirignano and T. Hazlett, Development of two new M–π–n CdTe sensors . . . A283 (1989) 323
Squillante, M.R., K.S. Shah and L. Moy, Stabilization of HgI_2 X-ray detectors . . . A288 (1990) 79
Squillante, M.R., see Farrell, R. . . . A288 (1990) 137
Stab, L., Thin epitaxial silicon detectors . . . A288 (1990) 24
Stadelmann, D., see Lutz, J.R. . . . A287 (1990) 166
Stagni, L., see Aulchenko, V.M. . . . A289 (1990) 468
Stagni, L., see Nava, F. . . . A290 (1990) 457
Stairs, G., see ZEUS Calorimeter Group . . . A289 (1990) 115
Stallard, B.W., see Jong, R.A. . . . A285 (1989) 379
Stamer, P., see Aston, D. . . . A283 (1989) 582
Stamer, P., see Aston, D. . . . A283 (1989) 590
Stanek, R.W., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Staniforth, J.A., Voltage surges in a radial model of the Vivitron . . . A287 (1990) 76
Stankevich, V.G., N.Yu. Svechnikov, K.V. Kaznacheev, R. Kink, H. Niedrais, K. Kalder, V.N. Golubev and V.Ya. Kosyev, Optical SR investigation of thin $YBa_2Cu_3O_{7-x}$ films in the 4–30 eV range . . . A282 (1989) 684
Stankus, P., see E-802 Collaboration . . . A290 (1990) 41
Stanton, J.A., see Kraft-Weyrather, W. . . . A282 (1989) 22

Stanton, N.R., see Kodama, K. . . . A289 (1990) 146
Stapor, W.J., see Murray, K.M. . . . A281 (1989) 616
Stapor, W.J., see Harihar, P. . . . A283 (1989) 62
Starič, M., Analytical approach to the development of charge signals in multiwire proportional chambers A283 (1989) 744
Stark, J.W. and W.F.S. Poehlman, Development of a knowledge-based control system for a model FN Van de Graaff accelerator: an operator's perspective A287 (1990) 119
Starodumov, A.N., see Abov, Yu.G. . . . A284 (1989) 80
Starosta, R., see Adeva, B. . . . A289 (1990) 35
Stassi, P., see Benrachi, F. . . . A281 (1989) 137
Stassi, P., see AMORPHA Collaboration A281 (1989) 528
Stauber, K., see Bodmann, B. . . . A286 (1989) 214
Staubert, A., see Strüder, L. . . . A288 (1990) 227
Steadman, S.G., see E-802 Collaboration A290 (1990) 41
Steck, M., see Krämer, D. . . . A287 (1990) 268
Steck, M., G. Bisoffi, M. Blum, A. Friedrich, C. Geyer, M. Grieser, B. Holzer, E. Jaeschke, M. Jung, D. Krämer, K. Matl, W. Ott and R. Repnow, Electron cooling of heavy ions A287 (1990) 324
Steeg, F., see Amendolia, S.R. . . . A283 (1989) 573
Steeg, F., see Barczewski, T. . . . A289 (1990) 176
Steer, M.G., see Potvin, L. . . . A281 (1989) 359
Stefanini, G., see Amendolia, S.R. . . . A283 (1989) 573
Stefanini, G., see Barczewski, T. . . . A289 (1990) 176
Stefanski, R.J., see Kodama, K. . . . A289 (1990) 146
Stegen, R., see Bodmann, B. . . . A286 (1989) 214
Stein, W.E., see Warren, R.W. . . . A285 (1989) 1
Stein, W.E., see Feldman, D.W. . . . A285 (1989) 11
Stein, W.E., see Lumpkin, A.H. . . . A285 (1989) 104
Stein, W.E., see Sollid, J.E. . . . A285 (1989) 147
Steinberg, S., I. Kaplan, M. Schieber, C. Ortale, N. Skinner and L. Van den Berg, Total organic carbon and gas chromatography–mass spectroscopy methods to determine total carbon and hydrocarbons in mercuric iodide single crystals A283 (1989) 123
Steiner, D., see UA6 Collaboration A286 (1989) 49
Steinert, L., see Dewald, A. . . . A287 (1990) 132
Steinmüller, D., see Steinmüller-Nethl, D. . . . A285 (1989) 307
Steinmüller-Nethl, D., D. Steinmüller and C. Leubner, Spectral and angular distribution of radiation from advanced wigglers with sharply peaked magnetic fields A285 (1989) 307
Stella, B., see Ferrarotto, F. . . . A285 (1989) 426
Stelzer, H., see Blank, B. . . . A286 (1989) 160
Stepantsov, S.V., see Bogdanov, D.D. . . . A289 (1990) 205
Stephani, D., see Debbe, R. . . . A283 (1989) 772
Stephans, G.S.F., see E-802 Collaboration A290 (1990) 41
Stephens, A.J., see Davinson, T. . . . A288 (1990) 245
Stephens, K.G., see Mingxiu, M. . . . A288 (1990) 303
Stephenson, R., see Bateman, J.E. . . . A283 (1989) 436
Sterzik, M., see Kemmer, J. . . . A288 (1990) 92
Sterzik, M., see Strüder, L. . . . A288 (1990) 227
Steuer, M., see Adeva, B. . . . A289 (1990) 35
Stever, R.D., see Jong, R.A. . . . A285 (1989) 379
Steyerl, A., see Mampe, W. . . . A284 (1989) 111
Steyerl, A. and S.S. Malik, Sources of ultracold neutrons A284 (1989) 200
Stichelbaut, F., C. Bricman, J. Buytaert, C. De Clercq, L. Etienne, B. Goorens, J. Lemonne, S. Tavernier, C. Van der Velde, W. Van Doninck, L. Van Lancker, J. Wickens, E. Daubie, F. Defontaines, J. Kesteman, O. Pingot and C. Poiret, Performance of the delay lines of the DELPHI forward muon chambers A283 (1989) 792
Stickland, D.P., see Adeva, B. . . . A289 (1990) 35
Stiebing, K.E., see Kraft, D. . . . A282 (1989) 199
Stiebing, K.E., D. Kraft, P. Salabura, K. Bethge, H. Bokemeyer and H. Folger, Influence of heavy-ion bombardment on the structure of targets for atomic and nuclear interaction studies A282 (1989) 206
Stier, H.E., see Fischer, H.M. . . . A283 (1989) 492
Stirling, A., see Alitti, J. . . . A283 (1989) 646
Stocchi, A., see Dijkstra, H. . . . A289 (1990) 400
Stockdale, I., see Aston, D. . . . A283 (1989) 582
Stockdale, I., see Aston, D. . . . A283 (1989) 590

Stockhausen, W., see Adler, J. . . . A283 (1989) 679
Stockhorst, H., see Bongardt, K. . . . A287 (1990) 273
Stodolsky, L., see Frank, M. . . . A287 (1990) 583
Stöhr, B., see Adeva, B. . . . A289 (1990) 35
Stoker, D.P., see Abrams, G. . . . A281 (1989) 55
Stokstad, R.G., see Fowler, M.M. . . . A281 (1989) 517
Stone, C.A., see Copley, J.R.D. . . . A281 (1989) 593
Stone, H., see Adeva, B. . . . A289 (1990) 35
Stone, R.R., see Jong, R.A. . . . A285 (1989) 387
Stoner Jr, J.O., Production of large screen-mounted aluminium neutralizer foils . . . A282 (1989) 176
Stoner Jr, J.O., Properties of evaporated target foils studied by computer simulation of ballistic aggregation . . . A282 (1989) 242
Storm, D.W., J.M. Amsbaugh, D.T. Corcoran, G.C. Harper, M.A. Howe, R.E. Stowell, W.G. Weitkamp, T.D. Van Wechel and D.I. Will, Status of and operating experience with the University of Washington superconducting booster linac . . . A287 (1990) 247
Stoughton, C., see Chi, C.Y. . . . A281 (1989) 448
Stowell, R.E., see Storm, D.W. . . . A287 (1990) 247
St-Pierre, C., see Potvin, L. . . . A281 (1989) 359
Strachan, D.E., see ZEUS-UK Collaboration . . . A283 (1989) 477
Stradtner, R., see Renner, T.R. . . . A281 (1989) 640
Strauch, K., see Adeva, B. . . . A289 (1990) 35
Strauch, K., see Adeva, B. . . . A289 (1990) 335
Strauch, K., see Adeva, B. . . . A290 (1990) 115
Straumann, U., see Egli, S. . . . A283 (1989) 487
Straumann, U., see ASTERIX Collaboration . . . A286 (1989) 76
Straver, J., see ZEUS Calorimeter Group . . . A289 (1990) 115
Straver, J., see ZEUS Calorimeter Group . . . A290 (1990) 95
Straver, J., see Drews, G. . . . A290 (1990) 335
Strebel, A., see Gaudiot, G. . . . A287 (1990) 37
Strelkov, A.V., see Kharitonov, A.G. . . . A284 (1989) 98
Striby, S., see Dei-Cas, R. . . . A285 (1989) 320
Strmen, P., see Chirikov-Zorin, I.E. . . . A285 (1989) 484
Strokan, N.B., see Verbitskaya, E.M. . . . A281 (1989) 167
Stroynowski, R., see Abrams, G. . . . A281 (1989) 55
Struczinski, W., see Grässler, H. . . . A283 (1989) 622
Strüder, L., Recent developments in semiconductor detectors and on-chip electronics . . . A283 (1989) 387
Struder, L., see UA6 Collaboration . . . A286 (1989) 49
Strüder, L., see Longoni, A. . . . A288 (1990) 35
Strüder, L., see Kemmer, J. . . . A288 (1990) 92
Strüder, L., see Rehak, P. . . . A288 (1990) 168
Strüder, L., H. Bräuninger, M. Meier, P. Predehl, C. Reppin, M. Sterzik, J. Trümper, P. Cattaneo, D. Hauff, G. Lutz, K.F. Schuster, A. Schwarz, E. Kenziorra, A. Staubert, E. Gatti, A. Longoni, M. Sampietro, V. Radeka, P. Rehak, S. Rescia, P.F. Manfredi, W. Buttler, P. Holl, J. Kemmer, U. Prechtel and T. Ziemann, The MPI/AIT X-ray imager (MAXI) – High speed pn CCDs for X-ray detection . . . A288 (1990) 227
Strzelczyk, H., see Böttger, R. . . . A282 (1989) 358
Stuesser, N., see Schaerpf, O. . . . A284 (1989) 208
Stulen, R.H., see Felter, T.E. . . . A283 (1989) 195
Stuttgé, L., see Smith, A.E. . . . A289 (1990) 231
Su, D., see Damerell, C.J.S. . . . A288 (1990) 236
Su Tongling, Sun Biehe, Yang Baotai, Piao Yubo, Shui Yongqing, Chen Kefan, Wang Xuezhi, Yang Cheng, Niu Zhanqi, Liu Yanton, Pan Minshen, Hong Zhongti and Chen Qin, An intense 14 MeV neutron source . . . A287 (1990) 452
Suckling, J., see Bateman, J.E. . . . A283 (1989) 436
Sudhakar, K., see Adeva, B. . . . A289 (1990) 35
Sudov, A.S., see Alexandrov, B.M. . . . A288 (1990) 399
Sudyko, A.F., see Tarasov, L.S. . . . A282 (1989) 669
Suekane, F., see Yamashita, T. . . . A283 (1989) 709
Sueva, D., V. Spassov, N. Chikov and E.I. Vapirev, Manufacturing avalanche diodes for detection of low energy gamma- and X-rays . . . A288 (1990) 460
Suffert, M., see Francke, T. . . . A283 (1989) 608
Sugai, I., T. Hattori, H. Muto, Y. Takahashi, H. Kato and K. Yamazaki, Hybrid-type long-lived carbon stripper foils . . . A282 (1989) 164
Sugimoto, M., see Chiba, S. . . . A281 (1989) 581

Sugimoto, M., see Mizumoto, M. . . . A282 (1989) 324
Sugimoto, M., see Kawarasaki, Y. . . . A285 (1989) 338
Sugimoto, H., see Nishizawa, M. . . . A285 (1989) 532
Sugimoto, H., see Amenomori, M. . . . A288 (1990) 619
Sugitate, T., see Kobayashi, T. . . . A287 (1990) 389
Sugitate, T., see E-802 Collaboration . . . A290 (1990) 41
Sugiyama, Y., Y. Tomita, H. Ikezoe, E. Takekoshi, K. Ideno and N. Shikazono, Performance of the heavy-ion magnetic spectrograph "ENMA" on the kinematic correction . . . A281 (1989) 512
Suita, M. and T. Taguchi, Thermal oxidation of CdTe surfaces and the properties of MOS diodes . . . A283 (1989) 268
Sukhanov, S.V., see Anashin, V.V. . . . A282 (1989) 386
Sulik, B., see Végh, J. . . . A281 (1989) 605
Suller, V.P., see Hughes, E.A. . . . A282 (1989) 392
Sullivan, C.A., see Fliflet, A.W. . . . A285 (1989) 233
Sullivan, G.W., see Chi, C.Y. . . . A281 (1989) 448
Sumbaev, O.I., see Alexeev, V.L. . . . A284 (1989) 181
Sumita, K., Tritium solid targets for intense D–T neutron production and the related problems . . . A282 (1989) 345
Sümmerer, K., see Blank, B. . . . A286 (1989) 160
Sumner, R.L., see Adeva, B. . . . A289 (1990) 35
Sun Biehe, see Su Tongling . . . A287 (1990) 452
Sundell, E., see Dijkstra, H. . . . A289 (1990) 400
Sundquist, M.L., R.D. Rathmell and J.E. Raatz, A new accelerator tube and column for a horizontal 8 MV tandem . . . A287 (1990) 87
Susinno, G., see LAA-LAD Group . . . A289 (1990) 351
Sustavov, A.F., see Berlev, A.I. . . . A283 (1989) 614
Suter, H., see Adeva, B. . . . A289 (1990) 35
Sutton, R.B., see Adeva, B. . . . A289 (1990) 35
Suvorov, E.V., see Kushnir, V.I. . . . A282 (1989) 539
Suvorov, I.A. and A.N. Tcheltsov, Stable enriched isotopes and the use of isotope targets for radioisotope productions . . . A282 (1989) 286
Suzuki, H., see Kitagaki, T. . . . A281 (1989) 81
Suzuki, I.H., see Koike, M. . . . A290 (1990) 145
Suzuki, T., see Liu, W.P. . . . A287 (1990) 476
Svanberg, S., see Werin, S. . . . A290 (1990) 589
Svechnikov, N.Yu., see Stankevich, V.G. . . . A282 (1989) 684
Svergun, D.I., see Feigin, L.A. . . . A282 (1989) 486
Swartz, M., see Abrams, G. . . . A281 (1989) 55
Sweet, M.A.S. and J. Rennie, Doped calcium sulphide as a thermoluminescence dosimetry material . . . A283 (1989) 330
Syed, R.H., see Lambrecht, R.M. . . . A282 (1989) 296
Syme, D.B., see Loughlin, M.J. . . . A281 (1989) 184
Symons, T.J.M., see Kobayashi, T. . . . A284 (1989) 381
Syrejshchikova, T.I., see Kurek, N.K. . . . A282 (1989) 490
Szaban, J., see Majewski, S. . . . A281 (1989) 497
Szabó, Gy., see Bartha, L. . . . A287 (1990) 156
Szabo, L., see Afonin, V.V. . . . A290 (1990) 223
Szabo, L., see McKenna-Lawlor, S. . . . A290 (1990) 217
Szady, A.J., Enrichment of chromium isotopes by gas centrifugation . . . A282 (1989) 277
Szalai, S., see Marsden, R.G. . . . A290 (1990) 211
Szalai, S., see Afonin, V.V. . . . A290 (1990) 223
Szczesny, H., see Adeva, B. . . . A289 (1990) 35
Székely, G., see Végh, J. . . . A281 (1989) 605
Szemerey, I., see Szücs, I.T. . . . A290 (1990) 228
Szendrö, S., see Szücs, I.T. . . . A290 (1990) 228
Szökefalvi-Nagy, Z., see Török, Sz. . . . A282 (1989) 499
Szoncsó, F., see Kulka, Z. . . . A287 (1990) 521
Szörényi, Á., see Jedlovszky, R. . . . A286 (1989) 462
Szucs, I.T., see Afonin, V.V. . . . A290 (1990) 223
Szücs, I.T., I. Szemerey, P. Király, W.E. Sharp, N.M. Shutte, T.E. Cravens, T.I. Gombosi, K.I. Gringauz, A.F. Nagy, S.M. Sheronova, S. Szendrö, M. Tátrallyay, A. Tóth and M.I. Verigin, The HARP electron and ion sensor on the Phobos Mission . . . A290 (1990) 228
Szűcs, L., see Andai, A. . . . A286 (1989) 457
Szűcs, L., see Jedlovszky, R. . . . A286 (1989) 462

Szymanski, J.J., see Coulter, K.P. A288 (1990) 463

Tacke, M., see Masek, J. A288 (1990) 104
Taguchi, T., see Ohba, K. A283 (1989) 265
Taguchi, T., see Suita, M. A283 (1989) 268
Taira, K., see Nishizawa, M. A285 (1989) 532
Taira, K., see Amenomori, M. A288 (1990) 619
Tajima, H., M. Nakamura, S. Nakanishi, K. Niwa, H. Tanaka and K. Yamamoto, Utilization of MOS gate structure for capacitive charge division readout of silicon strip detector A288 (1990) 536
Tajima, H., see Kodama, K. A289 (1990) 146
Takabe, M., see Kawarasaki, Y. A285 (1989) 338
Takahashi, E., see Cho, T. A289 (1990) 317
Takahashi, T., see Mitsui, K. A290 (1990) 565
Takahashi, Y., see Sugai, I. A282 (1989) 164
Takahashi, Y., see Niizeki, T. A287 (1990) 455
Takahashi, Y., see Kodama, K. A289 (1990) 146
Takashima, M., see Amendolia, S.R. A283 (1989) 573
Takashima, M., see Barczewski, T. A289 (1990) 176
Takashima, R., see FNAL-E581/704 Collaboration A290 (1990) 269
Takayama, K., see Hiramatsu, S. A285 (1989) 83
Takayama, T., see Kitagaki, T. A281 (1989) 81
Takeda, F., see Nakatani, H. A283 (1989) 303
Takeda, H., see Feldman, D.W. A285 (1989) 11
Takeda, H., see Sollid, J.E. A285 (1989) 147
Takeda, H. and J.E. Sollid, One-dimensional simulation of a free electron laser oscillator using a diffraction grating as a cavity mirror A285 (1989) 197
Takei, H., see Fujii, Y. A283 (1989) 665
Takekoshi, E., see Sugiyama, Y. A281 (1989) 512
Takeuchi, F., see Akei, M. A283 (1989) 46
Takeuchi, S., T. Ishii and H. Ikezoe, Niobium superconducting quarter-wave resonators as a heavy ion accelerating structure A281 (1989) 426
Takeuchi, S., T. Ishii, H. Ikezoe and Y. Tomita, Development of the JAERI tandem superconducting booster . . A287 (1990) 257
Takeutchi, F., see FNAL-E581/704 Collaboration A290 (1990) 269
Talaga, R.L., see Allen, R.C. A284 (1989) 347
Taldaev, R.R., see Kharitonov, A.G. A284 (1989) 98
Talmadge, S., W. Burke, S. Fornaca, B.I. Hauss, L. Higgins, P.S. Lee, S. Texter and H.R. Thompson Jr, Electron beam measurements on the first stage of the HPMC high brightness gun A285 (1989) 333
Tam, Y.S., see Bhowmik, A. A281 (1989) 224
Tamae, T., see Kitagaki, T. A281 (1989) 81
Tamai, K., see Kitagaki, T. A281 (1989) 81
Tamura, N., see Hemmi, Y. A281 (1989) 462
Tamura, N., see FNAL-E581/704 Collaboration A290 (1990) 269
Tan Jinfeng, see Huang Yecheng A290 (1990) 293
Tanaka, H., see Tajima, H. A288 (1990) 536
Tanaka, J., see Enomoto, A. A281 (1989) 1
Tanaka, K., see Adarkar, H. A284 (1989) 422
Tanaka, K., see Mima, K. A285 (1989) 47
Tanaka, K.H., see Akei, M. A283 (1989) 46
Tanaka, M., I. Arai, A. Manabe, M. Ninomiya, H. Nunokawa, K. Tomizawa, K. Yagi, J. Chiba, T. Kobayashi, T. Nagae, H. Sano and K. Tokushuku, Performance of a silicon microstrip detector with a new type of preamplifier for nuclear experiments A284 (1989) 296
Tanaka, M., see E-802 Collaboration A290 (1990) 41
Tanaka, M.H., see Kato, S. A287 (1990) 499
Tanaka, N., see FNAL-E581/704 Collaboration A290 (1990) 269
Tanaka, S., see Kitagaki, T. A281 (1989) 81
Tang, J., see Adeva, B. A289 (1990) 35
Tang, L.G. and E.V. Hungerford, A Monte Carlo study of the resolution limits in a lead–streamer tube photon shower counter A287 (1990) 407
Tang, X.W., see Adeva, B. A289 (1990) 35
Taniguchi, T., see Yamashita, T. A283 (1989) 709

Tanihata, I., see Liu, W.P. . . . A287 (1990) 476
Tanihata, I., see Nakagawa, T. . . . A290 (1990) 136
Tannenbaum, M.J., see E-802 Collaboration . . . A290 (1990) 41
Tanner, N.W., see Okx, W.J.C. . . . A289 (1990) 614
Tapper, R.J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Taranenko, P.I., see Barashenkov, V.S. . . . A284 (1989) 509
Tarasenko, A.S., see Boldyshev, V.P. . . . A282 (1989) 390
Tarasov, L.S., A.F. Kudryashova, A.A. Ulyanov, V.B. Baryshev, V.A. Bobrov, Yu.G. Shipitsyn, E.G. Vertman and A.F. Sudyko, Geochemical identification of mare-type basalt groups from a lunar highland region (by INAA and SRXFA) . . . A282 (1989) 669
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Tarasov, L.S., A.F. Kudryashova, A.A. Ulyanov, V.B. Baryshev and K.V. Zolotarev, Geochemistry of rare elements in lunar basalt rocks based on SRXFA . . . A282 (1989) 677
Tardieu, A., see Feigin, L.A. . . . A282 (1989) 486
Tarkovsky, E., see L3 Collaboration . . . A285 (1989) 403
Tarkovsky, E., see Adeva, B. . . . A289 (1990) 35
Taruma, K., see Kodama, K. . . . A289 (1990) 146
Tasaka, S., see Kodama, K. . . . A289 (1990) 146
Tasaki, S., see Ono, M. . . . A285 (1989) 477
Taskinen, P., H. Penttilä, J. Äystö, P. Dendooven, P. Jauho, A. Jokinen and M. Yoshii, Efficiency and delay of the fission ion guide for on-line mass separation . . . A281 (1989) 539
Tateyama, N., see Nishizawa, M. . . . A285 (1989) 532
Tateyama, N., see Amenomori, M. . . . A288 (1990) 619
Tátrallyay, M., see Szücs, I.T. . . . A290 (1990) 228
Tatsuyama, C., see Nakatani, H. . . . A283 (1989) 303
Tavenrath, A., see Adeva, B. . . . A289 (1990) 35
Tavernier, S., see Stichelbaut, F. . . . A283 (1989) 792
Tavernier, S.P.K., see Etienne, L. . . . A284 (1989) 439
Tawara, H., see Ichinose, H. . . . A286 (1989) 327
Taylor, F.E., see Benvenuti, A.C. . . . A284 (1989) 339
Taylor, F.E., A model of the limited streamer mechanism . . . A289 (1990) 283
Taylor, F.E., see Benvenuti, A.C. . . . A289 (1990) 463
Taylor, F.E., see Benvenuti, A.C. . . . A290 (1990) 353
Taylor, J.G.V., see Martin, R.H. . . . A286 (1989) 507
Taylor, R.E., see Abrams, G. . . . A281 (1989) 55
Tayursky, V.A., see Aulchenko, V.M. . . . A289 (1990) 468
Tcheltsov, A.N., see Suvorov, I.A. . . . A282 (1989) 286
Tcherniatine, V., see Angelis, A.L.S. . . . A283 (1989) 762
Tchoudakov, V., see L3 Collaboration . . . A285 (1989) 403
Tchudakov, V., see Adeva, B. . . . A289 (1990) 35
Tecchio, M., see SLD-WIC Collaboration . . . A289 (1990) 449
Tegeler, E. and M. Krumrey, Stability of semiconductor photodiodes as VUV detectors . . . A282 (1989) 701
Tegeler, E., Determination of the spectral radiance of deuterium lamps using the storage ring BESSY as a primary radiometric standard . . . A282 (1989) 706
Tegeler, E., see Krumrey, M. . . . A288 (1990) 114
Teiger, J., see Aubert, B. . . . A286 (1989) 147
Tejessy, W., see Amendolia, S.R. . . . A283 (1989) 573
Tejessy, W., see Barczewski, T. . . . A289 (1990) 176
Telegin, Yu.N., see Boldyshev, V.P. . . . A282 (1989) 390
Temkin, R., see Chu, T.S. . . . A285 (1989) 246
Temkin, R., see Chen, S.C. . . . A285 (1989) 290
Tempesta, P., see Bagliesi, G. . . . A286 (1989) 61
Tenchini, R., see Bagliesi, G. . . . A286 (1989) 61
Tepel, J.W. and H.-W. Müller, GAMCAT – A personal computer database on alpha particles and gamma rays from radioactive decay . . . A286 (1989) 443
Ter-Akopian, G.M., see Bogdanov, D.D. . . . A289 (1990) 205
Teranaka, M., see Kodama, K. . . . A289 (1990) 146
Terekhin, M.A., see Mikhailin, V.V. . . . A282 (1989) 607
Terekhin, M.A., see Belskiy, A.N. . . . A282 (1989) 625
Terekhov, Ya.V., see Baryshev, V.B. . . . A282 (1989) 570
Terent'ev, A.I., see Zelenina, N.K. . . . A283 (1989) 274

Terent'ev, A.I., see Zelenina, N.K. . . . A283 (1989) 279
Terlikowska-Drozdziel, T., see Kempisty, T. . . . A286 (1989) 535
Ternov, I.M., see Klepikov, N.P. . . . A282 (1989) 413
Terrani, M., see Cesana, A. . . . A281 (1989) 172
Terrani, M., see Benetti, P. . . . A281 (1989) 397
Tervisidis, F., N. Tsagas and J.C. Bates, Development of an isotropic velocity distribution in stored ultracold neutrons and its effect on the measurement of neutron lifetime: A computational study . . . A285 (1989) 431
Tesch, K., see Zazula, J.M. . . . A286 (1989) 279
Testi, A., see Benetti, P. . . . A281 (1989) 397
Texter, S., see Talmadge, S. . . . A285 (1989) 333
Tezuka, I., see Kodama, K. . . . A289 (1990) 146
Thalheimer, W., see Folger, H. . . . A282 (1989) 73
Thenard, J.M., see Adeva, B. . . . A289 (1990) 35
Thévenon, A., see Flamand, J. . . . A282 (1989) 532
Thiery, Y., see Ortega, J.M. . . . A285 (1989) 97
Thiessen, H.A., see Walling, L.S. . . . A281 (1989) 433
Thiessen, H.A., see Akei, M. . . . A283 (1989) 46
Thiyagarajan, P., see Epperson, J.E. . . . A289 (1990) 30
Thode, L.E., see McVey, B.D. . . . A285 (1989) 186
Thode, L.E., see Goldstein, J.C. . . . A285 (1989) 192
Thomae, R.W., see Wojke, R.G.C. . . . A288 (1990) 329
Thomae, R.W., see Urbanus, W.H. . . . A290 (1990) 1
Thomann, S., see Rusi El Hassani, A.J. . . . A290 (1990) 109
Thomas, E., see Adeva, B. . . . A289 (1990) 35
Thomas, G.E., see Greene, J.P. . . . A282 (1989) 71
Thomas, G.E., New technique for producing thin boron films . . . A282 (1989) 124
Thomas, G.E., see Green, J.P. . . . A282 (1989) 191
Thomas, J., see Amendolia, S.R. . . . A283 (1989) 573
Thomas, J., see Barczewski, T. . . . A289 (1990) 176
Thomas, R., see Bagliesi, G. . . . A286 (1989) 61
Thomas, S.L., T. Davinson and A.C. Shotter, A modular amplifier system for the readout of silicon strip detectors . . . A288 (1990) 212
Thomas, S.L., see Davinson, T. . . . A288 (1990) 245
Thomas, T., see Fujii, Y. . . . A283 (1989) 665
Thomaston, J., see Majewski, S. . . . A281 (1989) 500
Thompson, A., see McKenna-Lawlor, S. . . . A290 (1990) 217
Thompson, D., The search for the electric dipole moment of the neutron at the ILL . . . A284 (1989) 40
Thompson, J., see Bagliesi, G. . . . A286 (1989) 61
Thompson, J.C., see Lewis, J. . . . A288 (1990) 197
Thompson Jr, H.R., see Talmadge, S. . . . A285 (1989) 333
Thomsen, P., see Fretwurst, E. . . . A288 (1990) 1
Thomson-CSF, see Dei-Cas, R. . . . A285 (1989) 320
Thomson, S.L., see Hughes, E.A. . . . A282 (1989) 392
Thon, T., see Adeva, B. . . . A289 (1990) 35
Thorn, C.E., G. Giordano, O.C. Kistner, G. Matone, A.M. Sandorfi, C. Schaerf and C.S. Whisnant, The LEGS electron spectrometer for tagging backscattered photons . . . A285 (1989) 447
Thorn, C.E., see Dowell, D.H. . . . A286 (1989) 183
Thorndike, E.H., see Fujii, Y. . . . A283 (1989) 665
Thornhill, J., see Amery, A. . . . A283 (1989) 502
Thorsteinsen, T., see Garabatos, C. . . . A283 (1989) 553
Thorsteinsen, T., see Cherney, M. . . . A283 (1989) 796
Thron, J.L., The Soudan-2 proton decay experiment . . . A283 (1989) 642
Throop, A.L., see Jong, R.A. . . . A285 (1989) 379
Throwe, J., see Huomo, H. . . . A284 (1989) 359
Thuerig, H., see Adeva, B. . . . A289 (1990) 35
Thulen, M., see Adeva, B. . . . A289 (1990) 35
Thun, R., see Abrams, G. . . . A281 (1989) 55
Thut, R., see Schefer, J. . . . A288 (1990) 477
Tichomirov, I., see Michel, E. . . . A283 (1989) 544
Tickle, R.S., see Krofcheck, D. . . . A288 (1990) 497
Tickoo, A.K., see Bhat, C.L. . . . A281 (1989) 207

Tiecke, H., see ZEUS Calorimeter Group ... A289 (1990) 115
Tiecke, H., see ZEUS Calorimeter Group ... A290 (1990) 95
Tiecke, H., see Drews, G. ... A290 (1990) 335
Tiernan, T., see Entine, G. ... A283 (1989) 282
Tihomirov, A.V., see Kleev, A.I. ... A282 (1989) 445
Tikhonov, Yu.A., see Aulchenko, V.M. ... A289 (1990) 468
Tilbrook, I.R., see Den Hartog, P.K. ... A287 (1990) 235
Tilquin, A., see Brand, C. ... A283 (1989) 567
Timchenko, N.A., see Vorob'eva, E.A. ... A282 (1989) 615
Timchenko, N.A. and A.A. Shevtsov, An automated system for experiments with synchrotron radiation of the "SIRIUS" synchrotron ... A282 (1989) 732
Timakov, V.A., see Bogdanov, D.D. ... A289 (1990) 205
Timmermans, C., see Adeva, B. ... A289 (1990) 35
Timmermans, C., see Adeva, B. ... A289 (1990) 335
Timmermans, C., see Adeva, B. ... A290 (1990) 115
Timms, D., see Collins, S.P. ... A290 (1990) 254
Ting, S.C.C., see L3 Collaboration ... A285 (1989) 403
Ting, S.C.C., see Adeva, B. ... A289 (1990) 35
Ting, S.M., see Adeva, B. ... A289 (1990) 35
Titov, V.A., see Boldyshev, V.P. ... A282 (1989) 390
Tiveron, B., see Fortuna, G. ... A287 (1990) 253
Tkacek, S., see Carithers, W.C. ... A289 (1990) 388
Tkach, Yu.V., see Kurilko, V.I. ... A282 (1989) 431
Tkaczyk, S.M., see ZEUS-UK Collaboration ... A283 (1989) 477
Tkatchenko, A., see Moalem, A. ... A289 (1990) 168
Tkhan, C.D., see Zanevsky, Yu.V. ... A283 (1989) 462
Toccaceli, G., see Battaiotto, P. ... A287 (1990) 431
Toet, D.Z., see Van Apeldoorn, G. ... A283 (1989) 767
Toge, N., see Aston, D. ... A283 (1989) 582
Toge, N., see Aston, D. ... A283 (1989) 590
Tokar, R.L., see McVey, B.D. ... A285 (1989) 186
Tokarchuk, D.N., see Mitrofanov, A.V. ... A282 (1989) 546
Tokarev, Yu.I., see Anashin, V.V. ... A282 (1989) 386
Tõke, J., W.U. Schröder and J.R. Huizenga, Aspects of kinematical coincidence measurements of excitation energy division in damped reactions ... A288 (1990) 406
Toki, W., see Adler, J. ... A283 (1989) 679
Tokushuku, K., see Tanaka, M. ... A284 (1989) 296
Tolentino, H., F. Baudelet, E. Dartyge, A. Fontaine, A. Lena and G. Tourillon, Aberration-free and harmonic-free optics for time-resolved X-ray absorption spectroscopy using synchrotron radiation ... A289 (1990) 307
Tollestrup, A., see Carithers, W.C. ... A289 (1990) 388
Tolochko, B.P., see Gaponov, Yu.A. ... A282 (1989) 695
Tolochko, B.P., see Gaponov, Yu.A. ... A282 (1989) 698
Tolotschko, B.P., see Mattern, N. ... A282 (1989) 592
Tolstov, K.D., see Damdinsuren, C. ... A288 (1990) 319
Tomaselli, A., see Benetti, P. ... A281 (1989) 397
Tomasi-Gustafsson, E., see Bonin, B. ... A288 (1990) 379
Tomasi-Gustafsson, E., see Bonin, B. ... A288 (1990) 389
Tomasov, A.A., see Zelenina, N.K. ... A283 (1989) 274
Tomasov, A.A., see Zelenina, N.K. ... A283 (1989) 279
Tominaga, T., see Kodama, K. ... A289 (1990) 146
Tomita, Y., see Sugiyama, Y. ... A281 (1989) 512
Tomita, Y., see Takeuchi, S. ... A287 (1990) 257
Tomizawa, K., see Tanaka, M. ... A284 (1989) 296
Tompkins, J.A., see Kobisk, E.H. ... A282 (1989) 329
Tompkins, P., see Pissanetzky, S. ... A285 (1989) 303
Tonelli, G., see Bertolucci, S. ... A289 (1990) 375
Tong, Y.P., see Adeva, B. ... A289 (1990) 35
Tonini, R., see Nava, F. ... A290 (1990) 457
Tonisch, F., see Adeva, B. ... A289 (1990) 35
Tonutti, M., see Adeva, B. ... A289 (1990) 35
Tonwar, S.C., see Adeva, B. ... A289 (1990) 35

Toone, R.J., see Potvin, L. . . . A281 (1989) 359
Topphol, A.K., see Alvsvåg, S.J. . . . A290 (1990) 320
Toppins, A., see Caussyn, D.D. . . . A286 (1989) 348
Torelli, G., see Beverini, N. . . . A289 (1990) 532
Torii, S., see Nishizawa, M. . . . A285 (1989) 532
Torii, S., see Amenomori, M. . . . A288 (1990) 619
Torikoshi, M., see E-802 Collaboration . . . A290 (1990) 41
Tornow, W., see Howell, C.R. . . . A290 (1990) 424
Török, Sz., Z. Szökefalvi-Nagy, Sz. Sándor, V.B. Baryshev, K.V. Zolotarev and G.N. Kulipanov, Comparison of X-ray emission analysis sensitivity under various techniques of excitation in biological and environmental studies . . . A282 (1989) 499
Torquati, M.R., see Angelini, F. . . . A283 (1989) 423
Torquati, M.R., see Angelini, F. . . . A283 (1989) 755
Torre, A., see Dattoli, G. . . . A285 (1989) 108
Torretta, D., see Antinori, F. . . . A288 (1990) 82
Torsti, J.J., see Valtonen, E. . . . A286 (1989) 169
Tóth, A., see Szücs, I.T. . . . A290 (1990) 228
Tòth, J., see Adeva, B. . . . A289 (1990) 35
Toth, K., see Feigin, L.A. . . . A282 (1989) 486
Toth, W., see Adeva, B. . . . A289 (1990) 35
Toudup, L.W., see ZEUS-UK Collaboration . . . A283 (1989) 477
Tourillon, G., see Tolentino, H. . . . A289 (1990) 307
Tournier, M., see AMORPHA Collaboration . . . A281 (1989) 528
Tourrenc, Ph., see Bradaschia, C. . . . A289 (1990) 518
Tousignant, D., see Carithers, W.C. . . . A289 (1990) 388
Toyama, S., see Akei, M. . . . A283 (1989) 46
Tracy, J.G., Isotope separation program – Present and future . . . A282 (1989) 261
Trainor, T.A., Charging belt noise in a Van de Graaff accelerator . . . A287 (1990) 103
Trainor, T.A., G.C. Harper and D.J. Hodgkins, High-performance low-maintenance sputter source . . . A287 (1990) 176
Trainor, T.A., J.G. Douglas, G.C. Harper, D.J. Hodgkins and L.B. Van Houten, A precision injector for the tandem–booster system at Seattle . . . A287 (1990) 184
Trakhtenberg, E.M., see Anashin, V.V. . . . A282 (1989) 369
Trakhtenberg, E.M., see Anashin, V.V. . . . A282 (1989) 386
Trakhtenberg, E.M., see Gavrilov, N.G. . . . A282 (1989) 422
Tran, D.T., see Ortega, J.M. . . . A285 (1989) 97
Tran, M.-T., see UA6 Collaboration . . . A286 (1989) 49
Tran, T.-M., see Best, R.W.B. . . . A285 (1989) 211
Tranquille, G., see Poth, H. . . . A287 (1990) 328
Trasatti, L., see Bacilieri, P. . . . A289 (1990) 610
Trautmann, N., see Ruster, W. . . . A281 (1989) 547
Trautmann, N. and H. Folger, Preparation of actinide targets by eletrodeposition . . . A282 (1989) 102
Trautmann, N., see Overbeck, M. . . . A288 (1990) 413
Traxler, J., see Garabatos, C. . . . A283 (1989) 553
Traxler, J., see Cherney, M. . . . A283 (1989) 796
Treado, P.A., see Howell, C.R. . . . A290 (1990) 424
Treffert, C., see Gruber, A. . . . A282 (1989) 87
Trehan, P.N., see Chand, B. . . . A284 (1989) 393
Tribble, R.E., R.H. Burch and C.A. Gagliardi, MARS: A momentum achromat recoil spectrometer . . . A285 (1989) 441
Trilling, G.H., see Abrams, G. . . . A281 (1989) 55
Trilling, G.H., see Alexander, J.P. . . . A283 (1989) 519
Trinchero, G.C., see Bigongiari, A. . . . A288 (1990) 529
Trinks, U., see Dietl, L. . . . A284 (1989) 293
Trinks, U., Superconducting cyclotrons . . . A287 (1990) 224
Trochon, J., see Simon, G. . . . A286 (1989) 220
Trocóniz, J.F., see ZEUS Calorimeter Group . . . A289 (1990) 115
Troncon, C., see Dijkstra, H. . . . A289 (1990) 400
Trowitzsch, G., see Adeva, B. . . . A289 (1990) 35
Trukhin, A.N., see Alexandrov, Yu.M. . . . A282 (1989) 580
Trümper, J., see Strüder, L. . . . A288 (1990) 227
Trunova, V.A., see Khvostova, V.P. . . . A282 (1989) 516
Truöl, P., see Egli, S. . . . A283 (1989) 487

Truöl, P., see ASTERIX Collaboration A286 (1989) 76
Truong, K., see Brand, C. A283 (1989) 567
Trützschler, K., see Chilingarov, A.G. A288 (1990) 62
Tsagas, N., see Tervisidis, F. A285 (1989) 431
Tsakiris, G.D., see Alexandrov, Yu.M. A282 (1989) 725
Tschirhart, R., see Abrams, G. A281 (1989) 55
Tseng, A., see Butler, J.M. A290 (1990) 122
Tsertos, H., Search for resonant Bhabha scattering at MeV energies A284 (1989) 54
Tsipolitis, G., see Michel, E. A283 (1989) 544
Tsirou, M., see Drews, G. A290 (1990) 335
Tsuchiya, T., see Yamamoto, H. A281 (1989) 128
Tsunawaki, Y., see Mima, K. A285 (1989) 47
Tsuneoka, Y., see Kodama, K. A289 (1990) 146
Tsurugai, T., see ZEUS Calorimeter Group A289 (1990) 115
Tsurugai, T., see ZEUS Calorimeter Group A290 (1990) 95
Tsuzuki, Y., see Kodama, K. A289 (1990) 146
Tsygankov, P.A., see Anevsky, S.I. A282 (1989) 714
Tsyganov, E.N., see Golovatjuk, V.M. A288 (1990) 254
Tucker, A.W., see Lewis, J. A288 (1990) 197
Tull, C.E., see Kobayashi, T. A284 (1989) 381
Tung, K.L., see L3 Collaboration A285 (1989) 403
Tung, K.L., see Adeva, B. A289 (1990) 35
Turala, M., see Abrams, G. A281 (1989) 55
Turala, M., see Adolphsen, C. A288 (1990) 257
Turala, M., Demands of future high energy physics experiments A288 (1990) 290
Turala, M., see Dijkstra, H. A289 (1990) 400
Turchanovich, L.K., see Buzulutskov, A.F. A281 (1989) 99
Turchanovich, L.K., see Buzulutskov, A.F. A288 (1990) 659
Turchetta, R., see Breakstone, A. A281 (1989) 453
Turchetta, R., see Dijkstra, H. A289 (1990) 400
Turlot, J.P., see Brand, C. A283 (1989) 567
Turluer, M., see Brand, C. A283 (1989) 567
Turner, K., see Carithers, W.C. A289 (1990) 388
Turner, P.R., see Amery, A. A283 (1989) 502
Turrell, B.G., M. Legros, A. Da Silva, A. Kotlicki and A.K. Drukier, Recent developments in superheated superconducting granular detectors A289 (1990) 512
Tusi, A., see Bacci, C. A284 (1989) 536
Tutzauer, F., see De Ferrariis, L.F. A281 (1989) 43
Tutzauer, F., see De Ferrariis, L.F. A287 (1990) 642
Tuuva, T., see Dijkstra, H. A289 (1990) 400
Tyapkin, I.A., see Golovatjuk, V.M. A288 (1990) 254
Tyndel, M., see Dijkstra, H. A289 (1990) 400
Tysarczyk, G., see Bock, P. A283 (1989) 813
Tzanakos, G., see Chi, C.Y. A281 (1989) 448

UA6 Collaboration, L. Camilleri, L. Dick, J.-B. Jeanneret, G. Von Dardel, S. Baumann, A. Bernasconi, B. Gabioud, F. Gaille, C. Joseph, J.-F. Loude, C. Morel, J.L. Pages, J.-P. Perroud, D. Ruegger, G. Sozzi, D. Steiner, L. Struder, M.-T. Tran, E.C. Dukes, D. Hubbard, O.E. Overseth, C. Rivers, G.R. Snow, G. Valenti, R. Breedon, R.L. Cool, P.T. Cox, P. Cushman, P. Giacomelli, R.W. Rusack and A. Vacchi, A lead/proportional-tube electromagnetic calorimeter for direct photon detection A286 (1989) 49
UA1 Collaboration, The UA1 uranium–TMP calorimeter: Project and results from first full scale prototype . . A289 (1990) 482
Udo, F., see Hartjes, F. A289 (1990) 384
Ueta, N. and W.G.P. Engel, The target laboratory of the Pelletron accelerator at the University of São Paulo . . A282 (1989) 188
Ujiie, N. and M. Ikeda, CAMAC-controlled 4-level discriminator with four settable threshold levels A281 (1989) 335
Ujiie, N., see Ikeda, H. A281 (1989) 508
Ujiie, N., see Ikeda, H. A290 (1990) 462
Ulbricht, J., see L3 Collaboration A285 (1989) 403
Ulbricht, J., see L3 Collaboration A288 (1990) 364
Ulbricht, J., see Adeva, B. A289 (1990) 35
Ullrich, J., see Euler, J. A287 (1990) 374

Ulyanov, A.A., see Tarasov, L.S. . . . A282 (1989) 669
Ulyanov, A.A., see Kudryashova, A.F. . . . A282 (1989) 673
Ulyanov, A.A., see Tarasov, L.S. . . . A282 (1989) 677
Underwood, D.G., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Uozumi, Y., see Urase, K. . . . A290 (1990) 401
Urase, K., H. Ohgaki, Y. Uozumi, H. Ijiri, M. Matoba, T. Sakae and N. Koori, Measurements of discharge ion distribution around an anode wire of a gas counter . . . A290 (1990) 401
Urban, H.-J., see Hamann, N. . . . A281 (1989) 379
Urbàn, L., see Adeva, B. . . . A289 (1990) 35
Urbanus, W.H., J.G. Bannenberg, S. Doorn, F.W. Saris, R. Koudijs, P. Dubbelman and W. Koelewijn, Beam-envelope calculations of space-charge loaded beams in MeV dc ion-implantation facilities . . . A281 (1989) 28
Urbanus, W.H., see Wojke, R.G.C. . . . A288 (1990) 329
Urbanus, W.H., R.G.C. Wojke, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort, Comparison of two types of low-β rf linacs: MEQALAC and RFQ . . . A290 (1990) 1
Ushakov, V.A., see Anashin, V.V. . . . A282 (1989) 369
Ushida, N., see Kodama, K. . . . A289 (1990) 146
Usmar, S.G., see Huomo, H. . . . A284 (1989) 359
Usoltseva, T.I., see Kulikov, A.P. . . . A282 (1989) 583
Uto, H., see Noé, J.W. . . . A287 (1990) 240
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V. Przewoski, B., see Hinterberger, F. . . . A284 (1989) 523
Vacchi, A., see UA6 Collaboration . . . A286 (1989) 49
Vachette, P., see Feigin, L.A. . . . A282 (1989) 486
Vager, Z., see Berkovits, D. . . . A281 (1989) 663
Valbis, V.J., see Buzulutskov, A.F. . . . A288 (1990) 659
Valbusa, U., see Beverini, N. . . . A289 (1990) 532
Valdata-Nappi, M., see Bosi, F. . . . A283 (1989) 532
Valente, E., see Adeva, B. . . . A289 (1990) 35
Valente, E., see Bacilieri, P. . . . A289 (1990) 610
Valenti, G., see UA6 Collaboration . . . A286 (1989) 49
Valentini, S., see Bacilieri, P. . . . A289 (1990) 610
Valentinov, A.G., see Anashin, V.V. . . . A282 (1989) 369
Valette, O., see Burgei, R. . . . A287 (1990) 481
Valla, A.S., see Quimby, D.C. . . . A285 (1989) 281
Vallet, J.L., see Poth, H. . . . A287 (1990) 328
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Van Amersfoort, P.W., see Best, R.W.B. . . . A285 (1989) 211
Van Amersfoort, P.W., see Wojke, R.G.C. . . . A288 (1990) 329
Van Amersfoort, P.W., see Urbanus, W.H. . . . A290 (1990) 1
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Van Berg, R., see Newcomer, F.M. . . . A283 (1989) 806
Van de Walle, R.T., see Adeva, B. . . . A289 (1990) 35
Van de Wiele, J., see Bonin, B. . . . A288 (1990) 379
Van de Wiele, J., see Bonin, B. . . . A288 (1990) 389
Van den Berg, L., see Skinner, N.L. . . . A283 (1989) 119
Van den Berg, L., see Steinberg, S. . . . A283 (1989) 123
Van den Berg, L., see Burger, A. . . . A283 (1989) 130
Van den Berg, L., see Schieber, M. . . . A283 (1989) 172
Van den Berg, L., see James, R.B. . . . A283 (1989) 188
Van den Berg, L., see Felter, T.E. . . . A283 (1989) 195

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Van den Brandt, B., see Beverini, N. A289 (1990) 532
Van der Geer, C.A.J., see Van Amersfoort, P.W. A285 (1989) 67
Van der Graaf, H., see Adeva, B. A289 (1990) 35
Van der Graaf, H., see Adeva, B. A289 (1990) 335
Van der Graaf, H., see Adeva, B. A290 (1990) 115
Van der Heide, J.A., see Ernst, G.J. A285 (1989) 71
Van der Leun, C., see Zijderhand, F. A286 (1989) 490
Van der Meer, A.F.G., see Van Amersfoort, P.W. A285 (1989) 67
Van der Meer, A.F.G., see Oepts, D. A285 (1989) 204
Van der Spiegel, J., see Newcomer, F.M. A283 (1989) 806
Van der Steenhoven, G., see Beise, E.J. A281 (1989) 559
Van der Velde, C., see Stichelbaut, F. A283 (1989) 792
Van der Wiel, M.J., see Van Amersfoort, P.W. A285 (1989) 67
Van Dijk, J.H., see E-802 Collaboration A290 (1990) 41
Van Doninck, W., see Stichelbaut, F. A283 (1989) 792
Van Duppen, P., see Arnould, M. A282 (1989) 99
Van Eijk, C.W.E., see Schotanus, P. A281 (1989) 162
Van Eijk, C.W.E., see Hollander, R.W. A283 (1989) 448
Van Eijk, C.W.E., see Duijn, J.H. A283 (1989) 803
Van Eijk, C.W.E., see Schotanus, P. A284 (1989) 531
Van Eijk, C.W.E., see Schooneveld, E.M. A288 (1990) 250
Van Eijk, C.W.E., see Duijn, J.H. A288 (1990) 486
Van Eijk, C.W.E., see Duijn, J.H. A288 (1990) 493
Van Eijk, C.W.E., see Okx, W.J.C. A289 (1990) 614
Van Genderen, W., see Ernst, G.J. A285 (1989) 71
Van Houten, L.B., see Trainor, T.A. A287 (1990) 184
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Van Kooten, R., see Abrams, G. A281 (1989) 55
Van Kooten, R., see Boyarski, A. A283 (1989) 617
Van Lancker, L., see Stichelbaut, F. A283 (1989) 792
Van Rossum, L., see FNAL-E581/704 Collaboration A290 (1990) 269
Van Wechel, T.D., see Storm, D.W. A287 (1990) 247
Van Well, A.A., see De Haan, V.O. A289 (1990) 17
Vander Molen, A., see Krofcheck, D. A288 (1990) 497
Vander Velde, C., see Etienne, L. A284 (1989) 439
Vanderpuye, K., see Farrell, R. A288 (1990) 137
Vandevyver, M., see Blanchis, P. A286 (1989) 447
VanGestel, J., see Byrne, J. A284 (1989) 116
Vanhorenbeeck, J., see Dionisio, J.S. A282 (1989) 10
Vanhorenbeeck, J., see Arnould, M. A282 (1989) 99
Vanin, V.R., see Pascholati, P.R. A281 (1989) 610
Vanin, V.R. and M. Aïche, Statistical analysis of γ–γ coincidence matrices A284 (1989) 452
Vaninbroukx, R., see Coursey, B.M. A290 (1990) 537
Vannini, C., see Benvenuti, A.C. A284 (1989) 339
Vannini, C., see SLD-WIC Collaboration A289 (1990) 449
Vannini, C., see Benvenuti, A.C. A289 (1990) 463
Vannini, C., see Benvenuti, A. A289 (1990) 577
Vannini, C., see Benvenuti, A.C. A290 (1990) 353
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Vanzanella, V., see Adeva, B. A289 (1990) 35
Vapirev, E.I., see Sueva, D. A288 (1990) 460
Varela, A., see Cherubini, R. A281 (1989) 349
Varga, A., see Marsden, R.G. A290 (1990) 211
Varga, A., see McKenna-Lawlor, S. A290 (1990) 217
Varga, D., see Végh, J. A281 (1989) 605
Varhalmi, L., see Marsden, R.G. A290 (1990) 211

Varhalmi, L., see Afonin, V.V. . . . A290 (1990) 223
Varlamov, V.E., see Kharitonov, A.G. . . . A284 (1989) 98
Varvell, K., see Aderholz, M. . . . A284 (1989) 311
Vasil'chenko, V.G., see Buzulutskov, A.F. . . . A281 (1989) 99
Vasil'chenko, V.G., see Bamburov, N.S. . . . A289 (1990) 265
Vasilchenko, V.G., see Buzulutskov, A.F. . . . A288 (1990) 659
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Vasilev, S.E., see Zanevsky, Yu.V. . . . A283 (1989) 462
Vasiliev, A.N., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Vasil'yev, A.N., see Kamenskikh, I.A. . . . A282 (1989) 599
Vasilyev, A.V., see Kharitonov, A.G. . . . A284 (1989) 98
Vasin, V.V., see Babanov, Yu.A. . . . A282 (1989) 646
Va'vra, J., see Aston, D. . . . A283 (1989) 582
Va'vra, J., see Aston, D. . . . A283 (1989) 590
Vayaki, A., see Amendolia, S.R. . . . A283 (1989) 573
Vayaki, A., see Barczewski, T. . . . A289 (1990) 176
Vazina, A.A., see Gadzhiev, A.M. . . . A282 (1989) 502
Vazina, A.A., see Korystova, A.F. . . . A282 (1989) 506
Vazina, A.A., see Gadzhiev, A.M. . . . A282 (1989) 728
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Vegh, J., see Astakhov, A.Ya. . . . A283 (1989) 13
Vegni, G., see Dijkstra, H. . . . A289 (1990) 400
Vehanen, A., see Huomo, H. . . . A284 (1989) 359
Vejcik, S., see Abrams, G. . . . A281 (1989) 55
Vejcik, S., see Adolphsen, C. . . . A288 (1990) 257
Vejcik, S., see Carithers, W.C. . . . A289 (1990) 388
Velghe, M., see Couprie, M.E. . . . A282 (1989) 455
Velghe, M., see Couprie, M.E. . . . A285 (1989) 31
Velghe, M., see Ortega, J.M. . . . A285 (1989) 97
Veltman, H., see Abrams, G. . . . A281 (1989) 55
Venema, W.Z., see Van Klinken, J. . . . A286 (1989) 202
Veneziano, S., see Bacci, C. . . . A284 (1989) 536
Ventkataraman, G., see Devyatov, V.G. . . . A282 (1989) 688
Venuti, J.P., see Allaby, J.V. . . . A281 (1989) 291
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Verdier, R., see Benvenuti, A.C. . . . A284 (1989) 339
Verdier, R., see Benvenuti, A.C. . . . A289 (1990) 463
Verdier, R., see Benvenuti, A.C. . . . A290 (1990) 353
Verdini, P.G., see Allaby, J.V. . . . A281 (1989) 291
Verdini, P.G., see Benvenuti, A.C. . . . A284 (1989) 339
Verdini, P.G., see Benvenuti, A.C. . . . A289 (1990) 463
Verdini, P.G., see Benvenuti, A. . . . A289 (1990) 577
Verdini, P.G., see Benvenuti, A.C. . . . A290 (1990) 353
Veres, Á., see Németh, Zs. . . . A286 (1989) 601
Vereshchagin, G.V., see Erko, A.I. . . . A282 (1989) 634
Vergain, M., see Adeva, B. . . . A289 (1990) 35
Vergezac, P., see Brand, C. . . . A283 (1989) 567
Verigin, M.I., see Szücs, I.T. . . . A290 (1990) 228
Verluyten, L., see Aderholz, M. . . . A284 (1989) 311
Vernyi, A.E., see Anevsky, S.I. . . . A282 (1989) 714
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Vertman, E.G., see Tarasov, L.S. . . . A282 (1989) 669
Vervier, J., see Arnould, M. . . . A282 (1989) 99
Vervier, J., see Naviliat-Cuncic, O. . . . A287 (1990) 487
Veshcherevich, V.G., see Anashin, V.V. . . . A282 (1989) 369

Veshcherevich, V.G., see Anashin, V.V. . . . A282 (1989) 386
Vetlitsky, I., see Adeva, B. . . . A289 (1990) 35
Vetterli, M.C., see Henderson, R.S. . . . A286 (1989) 41
Vey, H., see Adeva, B. . . . A289 (1990) 35
Viano, J.B., see Benrachi, F. . . . A281 (1989) 137
Viano, J.B., see AMORPHA Collaboration . . . A281 (1989) 528
Vicari, E., see Angelini, C. . . . A281 (1989) 50
Vicari, E., see WA84 Collaboration . . . A289 (1990) 342
Vicari, E., see WA84 Collaboration . . . A289 (1990) 356
Viccaro, J., see Chapman, K. . . . A283 (1989) 88
Vick, R., see Johannsen, K. . . . A283 (1989) 702
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Videbæk, F., see E-802 Collaboration . . . A290 (1990) 41
Viertel, G., see Adeva, B. . . . A289 (1990) 35
Viertel, G., see Krummenacher, F. . . . A288 (1990) 176
Viertel, G., see Campbell, M. . . . A290 (1990) 149
Vieu, Ch., see Dionisio, J.S. . . . A282 (1989) 10
Vignola, G., see Yu, L.H. . . . A284 (1989) 268
Vilanova, D., see Brand, C. . . . A283 (1989) 567
Villari, A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
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Vincent, J.S., see D'Auria, J.M. . . . A288 (1990) 354
Vincent, P., see E-802 Collaboration . . . A290 (1990) 41
Vinet, J.Y., see Bradaschia, C. . . . A289 (1990) 518
Vinogradov, A.V., see Alexandrov, Yu.M. . . . A282 (1989) 551
Vinokurov, N.A., see Gavrilov, N.G. . . . A282 (1989) 422
Vinokurov, N.A., see Drobyazko, I.B. . . . A282 (1989) 424
Vintro, L., see Bhowmik, A. . . . A281 (1989) 224
Virgil, M., see Semkow, T.M. . . . A290 (1990) 437
Vishnjakov, V.M., see Alexandrov, Yu.M. . . . A282 (1989) 580
Visnovsky, S., see Kolobanov, V.N. . . . A282 (1989) 619
Vittoz, E., see Krummenacher, F. . . . A288 (1990) 176
Vittoz, E., see Campbell, M. . . . A290 (1990) 149
Vitulo, P., see Park, S. . . . A289 (1990) 496
Vivargent, M., see Adeva, B. . . . A289 (1990) 35
Vobly, P.D., see Anashin, V.V. . . . A282 (1989) 369
Vobly, P.D., see Anashin, V.V. . . . A282 (1989) 386
Vobly, P.D., see Gavrilov, N.G. . . . A282 (1989) 422
Vodopianov, A.S., see Golovatjuk, V.M. . . . A288 (1990) 254
Vogel, H., see Adeva, B. . . . A289 (1990) 35
Vogel, H.P., see Chaloupka, H. . . . A285 (1989) 327
Vogel, W., see ZEUS Calorimeter Group . . . A289 (1990) 115
Vogel, W., see ZEUS Calorimeter Group . . . A290 (1990) 95
Vogt, H., see Euler, J. . . . A287 (1990) 374
Vogt, J., see Matulewicz, T. . . . A289 (1990) 194
Voigtlaender-Tetzner, A., see Baake, M. . . . A281 (1989) 325
Volken, W., see Rusi El Hassani, A.J. . . . A290 (1990) 109
Volkov, S., see Adeva, B. . . . A289 (1990) 35
Volkov, S., see Adeva, B. . . . A289 (1990) 335
Volkov, S., see Adeva, B. . . . A290 (1990) 115
Vollmar, M., see Adeva, B. . . . A289 (1990) 35
Voltolini, C., see Garabatos, C. . . . A283 (1989) 553
Voltolini, C., see Cherney, M. . . . A283 (1989) 796
Von Borany, J., see Verbitskaya, E.M. . . . A281 (1989) 167
Von Dardel, G., see UA6 Collaboration . . . A286 (1989) 49
Von der Schmitt, H., see Fischer, H.M. . . . A283 (1989) 492
Von Feilitzsch, F., see Pröbst, F. . . . A288 (1990) 125
Von Goeler, E., see Allaby, J.V. . . . A281 (1989) 291
Von Gunten, H.P., see Adeva, B. . . . A289 (1990) 35

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Von Witsch, W., see Hohlweck, M. . . . A281 (1989) 277
Von Zanthier, C., see Abrams, G. . . . A281 (1989) 55
Vonach, H., see ASTERIX Collaboration . . . A286 (1989) 76
Vorderwisch, P., see Sivia, D.S. . . . A290 (1990) 492
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Vorobyov, A., see Adeva, B. . . . A289 (1990) 35
Voronin, A.G., see Bashindzhagyan, G.L. . . . A288 (1990) 265
Voronin, V.V., see Alexeev, V.L. . . . A284 (1989) 181
Voruganti, P., see Abrams, G. . . . A281 (1989) 55
Voss, B., see Blank, B. . . . A286 (1989) 160
Votaw, J.R. and R.J. Nickles, A theoretical description of the beam induced heating of accelerator target foils . A281 (1989) 216
Vötisch, D., see Bodmann, B. . . . A286 (1989) 214
Vötisch, D., see Drexlin, G. . . . A289 (1990) 490
Vouillarmet, J., see Dei-Cas, R. . . . A285 (1989) 320
Voyvodic, L., see Naon, R. . . . A283 (1989) 24
Vranić, D., see Vasileiadis, G. . . . A289 (1990) 618
Vuilleumier, L., see Adeva, B. . . . A289 (1990) 35
Vulgaris, E., see E-802 Collaboration . . . A290 (1990) 41
Vutsadakis, V., see E-802 Collaboration . . . A290 (1990) 41

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Wachtel, J.M., see Ben-Zvi, I. . . . A285 (1989) 364
Wadley, W., see Adler, J. . . . A283 (1989) 679
Wadsworth, B., see E-802 Collaboration . . . A290 (1990) 41
Waer, P., see Entine, G. . . . A283 (1989) 282
Wagemans, C., On the necessity of alternative methods to determine sample thicknesses and masses . . . A282 (1989) 4
Wagemans, C., see Mast, H. . . . A282 (1989) 107
Wagner, A., see Fischer, H.M. . . . A283 (1989) 492
Wagner, B., see Hartmann, W. . . . A286 (1989) 1
Wagner, C.N.J., see Burger, A. . . . A283 (1989) 130
Wagner, C.N.J., see Schieber, M. . . . A283 (1989) 172
Wagner, R.G., see Gabutti, A. . . . A289 (1990) 274
Wagner, S., see Bambade, P. . . . A290 (1990) 11
Wagner, S.R., see Abrams, G. . . . A281 (1989) 55
Wagner, S.R., see Alexander, J.P. . . . A283 (1989) 519
Wagner, S.R., see Koska, W. . . . A286 (1989) 32
Wahl, Ch., see Fischer, H.M. . . . A283 (1989) 492
Wahl, H., see Majewski, S. . . . A281 (1989) 500
Walchshäusl, B., see Rohrer, L. . . . A287 (1990) 170
Wald, H.B., see Allaby, J.V. . . . A281 (1989) 291
Waldmeier, S., see Adeva, B. . . . A289 (1990) 35
Walk, W., see Adeva, B. . . . A289 (1990) 35
Walker, J.F., see Ripamonti, G. . . . A288 (1990) 99

Walker, J.K., see Feygelman, V.M. . . . A290 (1990) 131
Walker, R.P., see Hughes, E.A. . . . A282 (1989) 392
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Wallis, E.W., see ZEUS-UK Collaboration . . . A283 (1989) 477
Wallraff, W., see Adeva, B. . . . A289 (1990) 35
Walter, R.L., see Howell, C.R. . . . A290 (1990) 424
Walther, A., see Michel, E. . . . A283 (1989) 544
Walton, L., see Aderholz, M. . . . A284 (1989) 311
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Wang, G.H., see Adeva, B. . . . A289 (1990) 35
Wang, J., see Xu, G. . . . A282 (1989) 161
Wang, J.H., see Adeva, B. . . . A289 (1990) 35
Wang, J.H., see Adeva, B. . . . A289 (1990) 335
Wang, J.H., see Adeva, B. . . . A290 (1990) 115
Wang, Q.F., see Adeva, B. . . . A289 (1990) 35
Wang, Q.F., see Adeva, B. . . . A289 (1990) 335
Wang, Q.F., see Adeva, B. . . . A290 (1990) 115
Wang, X.L., see Adeva, B. . . . A289 (1990) 35
Wang, Y.F., see Adeva, B. . . . A289 (1990) 35
Wang, Z., see Yegneswaran, A. . . . A290 (1990) 61
Wang, Z.M., see Adeva, B. . . . A289 (1990) 35
Wang, Z.M., see Adeva, B. . . . A289 (1990) 35
Wang, Z.M., see Adeva, B. . . . A289 (1990) 335
Wang, Z.M., see Adeva, B. . . . A290 (1990) 115
Wang Tongqing, see Huang Yecheng . . . A290 (1990) 293
Wang Xin Lin and Wang Yuanda, Measurements of the gamma-ray emission probabilities of ^{75}Se . . . A286 (1989) 460
Wang Xuezhi, see Su Tongling . . . A287 (1990) 452
Wang Yuanda, see Wang Xin Lin . . . A286 (1989) 460
Warburton, W.K., see Bradley, J.G. . . . A283 (1989) 348
Ward, C.P., see Akrawy, M. . . . A290 (1990) 76
Warren, R.W., J.E. Sollid, D.W. Feldman, W.E. Stein, W.J. Johnson, A.H. Lumpkin and J.C. Goldstein, Near-ideal lasing with a uniform wiggler . . . A285 (1989) 1
Warren, R.W., see Feldman, D.W. . . . A285 (1989) 11
Warren, R.W., see Lumpkin, A.H. . . . A285 (1989) 104
Warren, R.W., see Sollid, J.E. . . . A285 (1989) 147
Warren, R.W., see Sollid, J.E. . . . A285 (1989) 153
Wassenberg, D., see Adeva, B. . . . A289 (1990) 35
Wasson, O.A. and R.A. Schrack, Determination of the uniformity of uranium fission deposits using Rutherford backscattering spectrometry and alpha-particle scanning . . . A282 (1989) 194
Wastie, R., see ZEUS-UK Collaboration . . . A283 (1989) 477
Watanabe, S., see Kodama, K. . . . A289 (1990) 146
Watanabe, T., see Miyahara, H. . . . A286 (1989) 497
Watanabe, T., see Miyahara, H. . . . A286 (1989) 519
Watanabe, T., see Kodama, K. . . . A289 (1990) 146
Watanabe, Y., see Chiba, S. . . . A281 (1989) 581
Watase, Y., see Hemmi, Y. . . . A281 (1989) 462
Waterhouse, J., see Carter, J.R. . . . A286 (1989) 99
Waters, M., see Aderholz, M. . . . A284 (1989) 311
Wätjen, U., see Denecke, B. . . . A286 (1989) 474
Watson III, W.A., see E-802 Collaboration . . . A290 (1990) 41
Watson, J.M., see Lumpkin, A.H. . . . A285 (1989) 104
Watson, S., see Abrams, G. . . . A281 (1989) 55
Watson, S., see Levi, M. . . . A281 (1989) 265
Watts, S.J., see Damerell, C.J.S. . . . A288 (1990) 236
Watts, T., see Carroll, J.T. . . . A289 (1990) 606
Wear, J., see Amendolia, S.R. . . . A283 (1989) 573
Wear, J., see Barczewski, T. . . . A289 (1990) 176
Webb, M.L., see Fowler, M.M. . . . A281 (1989) 517

Weber, A., see Clajus, M. . . . A281 (1989) 17
Weber, A., see Heugel, J. . . . A287 (1990) 109
Weber, M., see Butz, T. . . . A284 (1989) 417
Weber, P., see Abrams, G. . . . A281 (1989) 55
Weber, P., see Alexander, J.P. . . . A283 (1989) 519
Websdale, D.M., see Angelini, C. . . . A281 (1989) 50
Websdale, D.M., see WA84 Collaboration . . . A289 (1990) 342
Websdale, D.M., see WA84 Collaboration . . . A289 (1990) 356
Wefel, J.P., see Miah, M.A. . . . A281 (1989) 622
Wegmann, D., see Adeva, B. . . . A289 (1990) 35
Wegner, H.E., see E-802 Collaboration . . . A290 (1990) 41
Wei, S.P., see Lumpkin, A.H. . . . A285 (1989) 17
Wei, Z.Y., see Chen, L.Y. . . . A283 (1989) 43
Weidberg, A.R., see Alitti, J. . . . A283 (1989) 646
Weidenauer, P., see ASTERIX Collaboration . . . A286 (1989) 76
Weidmann, R., see Clajus, M. . . . A281 (1989) 17
Weigend, A., see Abrams, G. . . . A281 (1989) 55
Weihs, W. and G. Zech, Numerical computation of electrostatic fields in multiwire chambers . . . A281 (1989) 393
Weikl, B., see Neff, W. . . . A285 (1989) 253
Weiland, T., see Chaloupka, H. . . . A285 (1989) 327
Weilhammer, P., see Dijkstra, H. . . . A289 (1990) 400
Weill, R., see Adeva, B. . . . A289 (1990) 35
Weinstein, A.J., see Abrams, G. . . . A281 (1989) 55
Weinstein, R., see Allaby, J.V. . . . A281 (1989) 291
Weinstein, R., see Hungerford, D. . . . A286 (1989) 155
Weir, A.J., see Abrams, G. . . . A281 (1989) 55
Weirauch, W., see Krüger, E. . . . A284 (1989) 143
Weis, T., see Wojke, R.G.C. . . . A288 (1990) 329
Weis, T., see Urbanus, W.H. . . . A290 (1990) 1
Weise, H., see Aab, V. . . . A285 (1989) 76
Weisel, G.J., see Howell, C.R. . . . A290 (1990) 424
Weiser, M., see Maisch, T. . . . A288 (1990) 19
Weiss, L.A., M.J. Sablik, J.D. Winningham, R.A. Frahm and P.H. Reiff, Design and numerical simulation of a 3-D electron plasma analyzer that resolves both energy and elevation angle . . . A281 (1989) 628
Weisser, D.C. and M.D. Malev, NEC accelerator tube upgrade: 16.7 MV in a 14UD . . . A287 (1990) 64
Weisser, D.C., Resistor assemblies for NEC accelerators . . . A287 (1990) 113
Weisz, S., see Abrams, G. . . . A281 (1989) 55
Weitkamp, W.G., see Storm, D.W. . . . A287 (1990) 247
Weitkamp, W.G., J.F. Amsbaugh, R.C. Connolly, H. Fauska, T.J. Irwin, M.A. Howe, J.M. LaCroix, D.D. Leach and H.P. Readdy, Beam diagnostics for the University of Washington superconducting booster . . . A287 (1990) 283
Wells, J., see ZEUS-UK Collaboration . . . A283 (1989) 477
Wells, P.S., see Alitti, J. . . . A283 (1989) 646
Wells, P.S., see Ansari, R. . . . A288 (1990) 240
Welser, W., see Maisch, T. . . . A288 (1990) 19
Welsh, R., see Yegneswaran, A. . . . A290 (1990) 61
Weltz, J., see Hohlweck, M. . . . A281 (1989) 277
Wenaus, T., see Adeva, B. . . . A289 (1990) 335
Wenaus, T., see Adeva, B. . . . A290 (1990) 115
Wenaus, T.J., see Adeva, B. . . . A289 (1990) 35
Wenger, P., see Adeva, B. . . . A289 (1990) 35
Wenninger, J., see Adeva, B. . . . A289 (1990) 35
Wenzel, H., see Grässler, H. . . . A283 (1989) 622
Wenzel, K.-P., see Marsden, R.G. . . . A290 (1990) 211
Werin, S., M. Eriksson, J. Larsson, A. Persson and S. Svanberg, First results in coherent harmonic generation using the undulator at the MAX-lab electron storage ring . . . A290 (1990) 589
Wermes, N., see Beard, C. . . . A286 (1989) 117
Werner, S.A., see Cimmino, A. . . . A284 (1989) 179
Werner, S.A., see Kaiser, H. . . . A284 (1989) 190
Wessner, H., R. Hertenberger, H. Kader and G. Graw, Position and angle resolving light ion detector for the Q3D magnetic spectrograph . . . A286 (1989) 175
Wester, W.C., see Carithers, W.C. . . . A289 (1990) 388

Westergaard, J., see Furuno, K. . . . A281 (1989) 10
Westerkamp, G., see Johannsen, K. . . . A283 (1989) 702
Westermann, T., Electromagnetic particle-in-cell simulations of the self-magnetically insulated B_θ-diode . . . A281 (1989) 253
Westermann, T., Space charge effects in a self-magnetically insulated pinch diode . . . A290 (1990) 529
Westfall, G.D., see Krofcheck, D. . . . A288 (1990) 497
Westmeier, W. and J. Van Aarle, PC-based high-precision nuclear spectrometry . . . A286 (1989) 439
Wheadon, R., see Avset, B.S. . . . A288 (1990) 131
Whisnant, C.S., see Thorn, C.E. . . . A285 (1989) 447
Whitaker, J., see Aston, D. . . . A283 (1989) 582
Whitaker, J., see Aston, D. . . . A283 (1989) 590
White, B.L., see ASTERIX Collaboration . . . A286 (1989) 76
White, D.J., see ZEUS-UK Collaboration . . . A283 (1989) 477
White, D.J., see Harnew, N. . . . A283 (1989) 781
White, D.J., see Carter, A.A. . . . A286 (1989) 107
White, J.L., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
White, M., see Adeva, B. . . . A289 (1990) 35
White, M., see Adeva, B. . . . A289 (1990) 335
White, M., see Adeva, B. . . . A290 (1990) 115
White, S.L., see Abrams, G. . . . A281 (1989) 55
White, S.N., see Bertolucci, S. . . . A289 (1990) 375
White, T.O., see Alitti, J. . . . A283 (1989) 646
Whitmore, M., see Kirlin, P.S. . . . A289 (1990) 261
Whynot, T.M., see Hussein, E.M.A. . . . A283 (1989) 100
Wichers, V.A., see Van Klinken, J. . . . A286 (1989) 202
Wick, K., see ZEUS Calorimeter Group . . . A289 (1990) 115
Wick, K., see ZEUS Calorimeter Group . . . A290 (1990) 95
Wicke, G.-D., see Doll, P. . . . A285 (1989) 464
Wickens, F.J., see Damerell, C.J.S. . . . A288 (1990) 236
Wickens, J., see Stichelbaut, F. . . . A283 (1989) 792
Wicklund, E., see Abrams, G. . . . A281 (1989) 55
Wiedenmann, W., see Barczewski, T. . . . A289 (1990) 176
Wienands, G., see Sefzick, T. . . . A288 (1990) 571
Wiescher, M., see Lamm, L.O. . . . A281 (1989) 143
Wigmans, R., see Hartjes, F.G. . . . A283 (1989) 109
Wilcox, J.O., see Kodama, K. . . . A289 (1990) 146
Wildman, J., see Brand, C. . . . A283 (1989) 567
Wilhelm, M., see Matulewicz, T. . . . A289 (1990) 194
Wilhelm, R., see Adeva, B. . . . A289 (1990) 35
Wilhelm, R., see Adeva, B. . . . A289 (1990) 335
Wilhelm, R., see Adeva, B. . . . A290 (1990) 115
Wilhelmy, J.B., see Fowler, M.M. . . . A281 (1989) 517
Wilke, M.D., see Lumpkin, A.H. . . . A285 (1989) 17
Wilkinson, D.H., Evaluation of beta-decay. II. Finite mass and size effects . . . A290 (1990) 509
Wilkinson, L., see Amery, A. . . . A283 (1989) 502
Will, D.I., see Storm, D.W. . . . A287 (1990) 247
Williams, A.P., see Byrne, J. . . . A284 (1989) 116
Williams, D., see Benvenuti, A.C. . . . A284 (1989) 339
Williams, D., see Benvenuti, A.C. . . . A289 (1990) 463
Williams, D., see Benvenuti, A.C. . . . A290 (1990) 353
Williams, D.A., see Aston, D. . . . A283 (1989) 582
Williams, D.A., see Aston, D. . . . A283 (1989) 590
Williams, D.C., see SLD-WIC Collaboration . . . A289 (1990) 449
Williams, D.C., see Benvenuti, A. . . . A289 (1990) 577
Williams, H.H., see Newcomer, F.M. . . . A283 (1989) 806
Williams, M.C.S., see LAA-LAD Group . . . A289 (1990) 351
Williams, S., see Aston, D. . . . A283 (1989) 582
Williams, S., see Aston, D. . . . A283 (1989) 590
Williams, T.D., see Chesi, E. . . . A283 (1989) 602
Williamson, C.F., see Beise, E.J. . . . A281 (1989) 559
Willins, J.D., see Katayama, N. . . . A283 (1989) 539
Willis, A., see Bonin, B. . . . A288 (1990) 379

Willis, A., see Bonin, B. . . . A288 (1990) 389
Willis, S., see Butler, J.M. . . . A290 (1990) 122
Willis, S.E., see Kodama, K. . . . A289 (1990) 146
Willis, W.J., see Angelis, A.L.S. . . . A283 (1989) 762
Willmott, C., see Adeva, B. . . . A289 (1990) 35
Willmott, C., see Adeva, B. . . . A289 (1990) 335
Willmott, C., see Adeva, B. . . . A290 (1990) 115
Wilpert, Th., see Overbeck, M. . . . A288 (1990) 413
Wilquet, G., see WA84 Collaboration . . . A289 (1990) 356
Wilson, F.F., see ZEUS-UK Collaboration . . . A283 (1989) 477
Wilson, G.W., see Beard, C. . . . A286 (1989) 117
Wilson, O.J., Monte Carlo counting efficiencies for measuring Rn in a charcoal canister . . . A288 (1990) 603
Wilson, R.J., see Aston, D. . . . A283 (1989) 582
Wilson, R.J., see Aston, D. . . . A283 (1989) 590
Wilson, W.K., see Krofcheck, D. . . . A288 (1990) 497
Wiltshire, R.A.P., see Lowles, I.M. . . . A286 (1989) 556
Winde, M., see Bärwolff, H. . . . A283 (1989) 467
Winkler, G., On the influence of sample and target properties on the results of energy-dependent cross section measurements . . . A282 (1989) 317
Winn, D.R., see Kirlin, P.S. . . . A289 (1990) 261
Winningham, J.D., see Weiss, L.A. . . . A281 (1989) 628
Winningham, J.D., see Sablik, M.J. . . . A286 (1989) 306
Wirth, H.P., see Adeva, B. . . . A289 (1990) 35
Wiser, D.E., see Allaby, J.V. . . . A281 (1989) 291
Witherell, M., see Aston, D. . . . A283 (1989) 582
Witherell, M., see Aston, D. . . . A283 (1989) 590
Witte, M., see Marsden, R.G. . . . A290 (1990) 211
Witte, M., see McKenna-Lawlor, S. . . . A290 (1990) 217
Witte, M., see Afonin, V.V. . . . A290 (1990) 223
Witteman, W.J., see Ernst, G.J. . . . A285 (1989) 71
Wittgenstein, F., see Adeva, B. . . . A289 (1990) 35
Witzeling, W., see Amendolia, S.R. . . . A283 (1989) 573
Witzeling, W., see Barczewski, T. . . . A289 (1990) 176
Wochele, J., see Drexlin, G. . . . A289 (1990) 490
Wodrich, R.W., see ASTERIX Collaboration . . . A286 (1989) 76
Wojcik, R., see Bouclier, R. . . . A283 (1989) 509
Wojcik, R., see Jibaly, M. . . . A283 (1989) 692
Wojke, R.G.C., W.H. Urbanus, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort, Simultaneous bunching of different ion species in a periodic focusing transport channel . . . A288 (1990) 329
Wojke, R.G.C., see Urbanus, W.H. . . . A290 (1990) 1
Wolf, A., see Poth, H. . . . A287 (1990) 328
Wolf, R.C., see Abrams, G. . . . A281 (1989) 55
Wölfle, S., see Drexlin, G. . . . A289 (1990) 490
Wolin, E.J., see Beringer, R. . . . A290 (1990) 370
Wollersheim, H.J., see Matulewicz, T. . . . A289 (1990) 194
Wolski, D., see Białkowski, J. . . . A281 (1989) 657
Womersley, W.J., New tools for the simulation and design of calorimeters . . . A289 (1990) 475
Wong, D., see James, R.B. . . . A283 (1989) 188
Wong, M., see Carithers, W.C. . . . A289 (1990) 388
Woo, J.K., see Kodama, K. . . . A289 (1990) 146
Wood, C., see Adler, J. . . . A283 (1989) 679
Wood, D.R., see Abrams, G. . . . A281 (1989) 55
Wood, D.R., see Alitti, J. . . . A283 (1989) 646
Wood, D.R., Electron identification with the UA2 scintillating fibre detector . . . A289 (1990) 331
Wood, N.C., see Imrie, D.C. . . . A283 (1989) 515
Wood, N.C., see Anderson, B.E. . . . A283 (1989) 650
Wood, S.A., see Beise, E.J. . . . A281 (1989) 559
Woodruff, D.S., see E-802 Collaboration . . . A290 (1990) 41
Woods, M., see Abrams, G. . . . A281 (1989) 55
Woods, M.J. and S.E.M. Lucas, The half-life of ^{125}I . . . A286 (1989) 517
Woods, M.J., The half-life of ^{137}Cs – A critical review . . . A286 (1989) 576

Woods, P.J., see Allcock, S.C. . . . A289 (1990) 213
Woods, S.A., see Pearcey, J. . . . A286 (1989) 563
Woody, C.L., see Anderson, D.F. . . . A290 (1990) 385
Wormser, G., see Abrams, G. . . . A281 (1989) 55
Wörtge, M., see Poth, H. . . . A287 (1990) 328
Wotton, S.A., see Alitti, J. . . . A283 (1989) 646
Wouters, S.E., S.A. Audet, M.H. Kim and E.M. Schooneveld, Integrating transistors on high-ohmic silicon . . . A288 (1990) 44
Wouters, S.E., see Schooneveld, E.M. . . . A288 (1990) 250
Wozniak, G.J., see Pantaleo, A. . . . A286 (1989) 230
Wrbanek, J., see Bross, A. . . . A286 (1989) 69
Wright, A.G., see Fraser-Mitchell, J. . . . A288 (1990) 429
Wright, R., see Abrams, G. . . . A281 (1989) 55
Wright, R., see Alexander, J.P. . . . A283 (1989) 519
Wu, D.Y., see Abrams, G. . . . A281 (1989) 55
Wu, M.W., see Hwang, C.S. . . . A288 (1990) 324
Wu, R.J., see Adeva, B. . . . A289 (1990) 35
Wu, S.L., see Amendolia, S.R. . . . A283 (1989) 573
Wu, S.L., see Barczewski, T. . . . A289 (1990) 176
Wu, S.X., see Adeva, B. . . . A289 (1990) 35
Wu, Y.D., see E-802 Collaboration . . . A290 (1990) 41
Wu, Y.G., see Adeva, B. . . . A289 (1990) 35
Wu, Z., see Beringer, R. . . . A290 (1990) 370
Wu Jianwu, see Xiong Shen-Shou . . . A282 (1989) 418
Wülker, M., see ZEUS Calorimeter Group . . . A289 (1990) 115
Wünsch, B., see Fischer, H.M. . . . A283 (1989) 492
Wunstorf, R., see Fretwurst, E. . . . A288 (1990) 1
Wyatt, T.R., see Carter, J.R. . . . A286 (1989) 99
Wyslouch, B., see Adeva, B. . . . A289 (1990) 35
Wyslouch, B., see Adeva, B. . . . A289 (1990) 335
Wyslouch, B., see Adeva, B. . . . A290 (1990) 115
Wyss, J., see Benvenuti, A.C. . . . A284 (1989) 339
Wyss, J., see SLD-WIC Collaboration . . . A289 (1990) 449
Wyss, J., see Benvenuti, A.C. . . . A289 (1990) 463
Wyss, J., see Benvenuti, A. . . . A289 (1990) 577
Wyss, J., see Benvenuti, A.C. . . . A290 (1990) 353

Xi, F.Y., see Adeva, B. . . . A289 (1990) 35
Xi, F.Y., see Adeva, B. . . . A289 (1990) 335
Xi, F.Y., see Adeva, B. . . . A290 (1990) 115
Xia, Y., see Garabatos, C. . . . A283 (1989) 553
Xia, Y., see Cherney, M. . . . A283 (1989) 796
Xian, D., see Wang, C. . . . A288 (1990) 649
Xian, D., see Fang, Y. . . . A290 (1990) 597
Xian Dingchang, BEPC synchrotron radiation facilities . . . A282 (1989) 380
Xian Dingchang, see Xiong Shen-Shou . . . A282 (1989) 418
Xiang, K.H., see Chen, L.Y. . . . A283 (1989) 43
Xie, P., see Butler, J.M. . . . A290 (1990) 122
Xiong Shen-Shou, Wu Jianwu and Xian Dingchang, The vacuum control and protection system for BEPC synchrotron radiation beam lines . . . A282 (1989) 418
Xu, G., J. Wang, X. Luo and S. Guan, A simple preparation method for carbon stripper foils . . . A282 (1989) 161
Xu, I., see Yegneswaran, A. . . . A290 (1990) 61
Xu, Z.Z., see Adeva, B. . . . A289 (1990) 35
Xue, S., see Amendolia, S.R. . . . A283 (1989) 573
Xue, Z.L., see Adeva, B. . . . A289 (1990) 35

Yager, P.M., see Kodama, K. . . . A289 (1990) 146
Yagi, K., see Tanaka, M. . . . A284 (1989) 296
Yagishita, A., see Cho, T. . . . A289 (1990) 317

Yakhimov, I.S., Automatization of phase identification of X-ray diffraction powder patterns obtained by using SR A282 (1989) 655
Yakimenko, M.N., see Kurek, N.K. A282 (1989) 490
Yakimenko, M.N., see Alexandrov, Yu.M. A282 (1989) 551
Yakimenko, M.N., see Alexandrov, Yu.M. A282 (1989) 580
Yakimenko, M.N., see Alexandrov, Yu.M. A282 (1989) 597
Yakimenko, M.N., see Alexandrov, Yu.M. A282 (1989) 716
Yamada, R., see Butler, J.M. A290 (1990) 122
Yamada, Y., see Hemmi, Y. A281 (1989) 462
Yamaguchi, A., see Kitagaki, T. A281 (1989) 81
Yamaguchi, H., see Liu, W.P. A287 (1990) 476
Yamaguchi, N., see Cho, T. A289 (1990) 317
Yamamoto, H., S. Hatakeyama, T. Norimura and T. Tsuchiya, Low-energy nuclear radiation detection with a silicon photodiode A281 (1989) 128
Yamamoto, K., see Tajima, H. A288 (1990) 536
Yamamoto, S., see Kobayashi, K. A287 (1990) 570
Yamamoto, Y., see Nishizawa, M. A285 (1989) 532
Yamamoto, Y., see Amenomori, M. A288 (1990) 619
Yamamura, T., see Kitagaki, T. A281 (1989) 81
Yamanaka, C., see Mima, K. A285 (1989) 47
Yamanoi, Y., see Akei, M. A283 (1989) 46
Yamanouti, Y., see Chiba, S. A281 (1989) 581
Yamartino, J.M., see Benvenuti, A.C. A284 (1989) 339
Yamartino, J.M., see SLD-WIC Collaboration A289 (1990) 449
Yamartino, J.M., see Benvenuti, A.C. A289 (1990) 463
Yamartino, J.M., see Benvenuti, A. A289 (1990) 577
Yamartino, J.M., see Benvenuti, A.C. A290 (1990) 353
Yamashita, T., H. Kobayashi, A. Konaka, H. Kurashige, K. Miyake, M.M. Morii, T.T. Nakamura, T. Nomura, N. Sasao, Y. Fukushima, M. Nomachi, O. Sasaki, F. Suekane and T. Taniguchi, Measurements of the electron drift velocity and positive-ion mobility for gases containing CF_4 ..... A283 (1989) 709
Yamato, J., see Kodama, K. A289 (1990) 146
Yamazaki, K., see Sugai, I. A282 (1989) 164
Yan, D.S., see Adeva, B. A289 (1990) 35
Yanagimachi, T., see Liu, W.P. A287 (1990) 476
Yanev, K.D., see Adeva, B. A289 (1990) 35
Yañez, A., see Garabatos, C. A283 (1989) 553
Yanēz, A., see Cherney, M. A283 (1989) 796
Yang Baotai, see Su Tongling A287 (1990) 452
Yang, B.Z., see Adeva, B. A289 (1990) 35
Yang, B.Z., see Adeva, B. A289 (1990) 335
Yang, B.Z., see Adeva, B. A290 (1990) 115
Yang, C., see Karabekov, I.P. A286 (1989) 37
Yang, C.G., see Adeva, B. A289 (1990) 35
Yang, C.G., see Adeva, B. A289 (1990) 335
Yang, C.G., see Adeva, B. A290 (1990) 115
Yang, K.S., see Adeva, B. A289 (1990) 35
Yang, M.S., see Hwang, C.S. A288 (1990) 324
Yang, Q.Y., see Adeva, B. A289 (1990) 35
Yang, Q.Y., see Adeva, B. A289 (1990) 335
Yang, Q.Y., see Adeva, B. A290 (1990) 115
Yang, Z.Q., see Adeva, B. A289 (1990) 35
Yang Cheng, see Su Tongling A287 (1990) 452
Yanokura, M., see Liu, W.P. A287 (1990) 476
Yanovsky, V.V., see Kozma, P. A281 (1989) 346
Yao, N.-G., see Chang, T.-Y. A290 (1990) 390
Yarema, R., see Carithers, W.C. A289 (1990) 388
Yariv, Y., see Gavron, A. A290 (1990) 139
Yasue, M., see Kato, S. A287 (1990) 499
Yatsunenko, Yu.A., Vertex reconstruction without track reconstruction A287 (1990) 422
Ye, C.H., see Adeva, B. A289 (1990) 35
Ye, C.H., see Adeva, B. A289 (1990) 335

Ye, C.H., see Adeva, B. . . . A290 (1990) 115
Yearworth, M., see Gorrod, M.J. . . . A281 (1989) 156
Yegneswaran, A., S. Beedoe, J. Bystricky, J. Carroll, S. Christo, G. Claesson, P. Force, R. Fulton, J.F. Gilot, J. Gordon, T. Hallman, D.L. Hendrie, G. Igo, P. Kirk, G.F. Krebs, E. Lallier, G. Landaud, A. Letessier-Selvon, L. Madansky, H.S. Matis, D. Miller, T. Mulera, C. Naudet, D. Nesbitt, P. Oillataguerre, G. Roche, L.S. Schroeder, P.A. Seidl, R. Welsh, Z. Wang and I. Xu, The dilepton spectrometer . . . A290 (1990) 61
Yeh, S.C., see Adeva, B. . . . A289 (1990) 35
Yeh, S.C., see Adeva, B. . . . A289 (1990) 335
Yeh, S.C., see Adeva, B. . . . A290 (1990) 115
Yellin, S., see Aston, D. . . . A283 (1989) 582
Yellin, S., see Aston, D. . . . A283 (1989) 590
Yelon, W., see Schieber, M. . . . A283 (1989) 172
Yeo, K.L., see ZEUS-UK Collaboration . . . A283 (1989) 477
Yepes, P., see Garabatos, C. . . . A283 (1989) 553
Yepes, P., see Cherney, M. . . . A283 (1989) 796
Yeremin, V.K., see Verbitskaya, E.M. . . . A281 (1989) 167
Yin, Z.W., see Chen, L.Y. . . . A283 (1989) 43
Yin, Z.W., see Adeva, B. . . . A289 (1990) 35
Yokosawa, A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Yokota, H., see Fujii, Y. . . . A283 (1989) 665
Yokota, J., see Kodama, K. . . . A289 (1990) 146
Yokoyama, C., see Kodama, K. . . . A289 (1990) 146
Yonnet, J., see Bonin, B. . . . A288 (1990) 379
Yonnet, J., see Bonin, B. . . . A288 (1990) 389
Yoon, C.S., see Kodama, K. . . . A289 (1990) 146
Yoon, M., see Huang, Y. . . . A288 (1990) 293
Yoshida, R., see Park, S. . . . A289 (1990) 496
Yoshida, T., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Yoshii, M., see Taskinen, P. . . . A281 (1989) 539
Yoshikawa, H., see Kawarasaki, Y. . . . A285 (1989) 338
Yoshikawa, N., see Akei, M. . . . A283 (1989) 46
Yoshiki, H., see Golub, R. . . . A284 (1989) 16
Yoshimura, Y., see Anderson, D.F. . . . A290 (1990) 385
Yoshioka, K., see Koori, N. . . . A281 (1989) 243
Yoshizawa, Y., see Matsui, S. . . . A281 (1989) 568
Young, B.A., B. Cabrera, A.T. Lee, C.J. Martoff, B. Neuhauser and J.P. McVittie, Phonon-mediated detection of X-rays in silicon crystals using superconducting transition edge phonon sensors . . . A288 (1990) 119
Young, J.C., see Kobayashi, T. . . . A284 (1989) 381
Young, K.K., see Anderson, B.E. . . . A283 (1989) 650
Youngman, C., see ZEUS Calorimeter Group . . . A289 (1990) 115
Youngman, C., see ZEUS Calorimeter Group . . . A290 (1990) 95
Ythier, C., see Diallo, O. . . . A286 (1989) 379
Yu, B., see Debbe, R. . . . A283 (1989) 772
Yu, L.H., E. Bozoki, J. Galayda, S. Krinsky and G. Vignola, Real time harmonic closed orbit correction . . . A284 (1989) 268
Yu, L.-H. and S. Krinsky, Amplified spontaneous emission in a single pass free electron laser . . . A285 (1989) 119
Yu, S.S., see Sharp, W.M. . . . A285 (1989) 217
Yu Xia-Zhen, see Hungerford, D. . . . A286 (1989) 155
Yuan, V., see Coulter, K.P. . . . A288 (1990) 463
Yuan, W.Y., see Kodama, K. . . . A289 (1990) 146
Yuasa-Nakagawa, K., see Nakagawa, T. . . . A290 (1990) 136
Yuda, T., see Zhang, C.S. . . . A283 (1989) 78
Yuda, T., see Nishizawa, M. . . . A285 (1989) 532
Yuda, T., see Amenomori, M. . . . A288 (1990) 619
Yuda, T., see Kashiwagi, T. . . . A290 (1990) 579
Yudin, Yu.V., see Anashkin, E.V. . . . A283 (1989) 752
Yuriev, G.S., see Kulikov, A.P. . . . A282 (1989) 583
Yurko, M., see Abrams, G. . . . A281 (1989) 55
Yuta, H., see Kitagaki, T. . . . A281 (1989) 81
Yuta, H., see Aston, D. . . . A283 (1989) 582
Yuta, H., see Aston, D. . . . A283 (1989) 590
Yvon, P., see Dei-Cas, R. . . . A285 (1989) 320

Zabiyakin, V., see Drabkin, G. . . . A284 (1989) 176
Zabounidis, C., see Adeva, B. . . . A289 (1990) 35
Zabounidis, C.R., see Adeva, B. . . . A289 (1990) 335
Zabounidis, C.R., see Adeva, B. . . . A290 (1990) 115
Zaccardelli, C., see Abrams, G. . . . A281 (1989) 55
Zaccardelli, C., see Adolphsen, C. . . . A288 (1990) 257
Zaccone, H., see Alitti, J. . . . A283 (1989) 646
Zadro, M. and M. Bogovac, An iterative procedure for unfolding of scintillation pulse-height spectra (*Letter to the Editor*) . . . A284 (1989) 533
Zaganidis, N., see Vasileiadis, G. . . . A289 (1990) 618
Zaid, K., see Benrachi, F. . . . A281 (1989) 137
Zajc, W.A., see E-802 Collaboration . . . A290 (1990) 41
Zakharchenko, Yu.A., see Belskiy, A.N. . . . A282 (1989) 625
Zakharenkov, Yu.A., see Alexandrov, Yu.M. . . . A282 (1989) 716
Zakharenkov, Yu.A., see Alexandrov, Yu.M. . . . A282 (1989) 725
Żakowicz, W., Guidance and concentration of radiation by a hollow dielectric waveguide . . . A285 (1989) 269
Zalewska, A., see Dijkstra, H. . . . A289 (1990) 400
Zamaraev, K.I. and D.I. Kochubey, An EXAFS study of oxide and sulphided catalysts . . . A282 (1989) 563
Zanella, G. and R. Zannoni, X-ray imaging with scintillating glass optical fibres . . . A287 (1990) 619
Zanetti, A., see FNAL-E581/704 Collaboration . . . A290 (1990) 269
Zanello, L., see Bacci, C. . . . A284 (1989) 536
Zanevsky, Yu.V., C.D. Tkhan, G.A. Cheremukhina, S.P. Chernenko, A.B. Ivanov, S.A. Movchan, T. Netusil, V.D. Peshekhonov, L.P. Smykov and S.E. Vasilev, Recent progress in developments and applications of imaging detectors at LHE, JINR . . . A283 (1989) 462
Zanini, A., see Manfredotti, C. . . . A284 (1989) 464
Zannoni, R., see Zanella, G. . . . A287 (1990) 619
Zapevalov, V.A., see Alexandrov, B.M. . . . A288 (1990) 399
Zaremba, S., see Arnould, M. . . . A282 (1989) 99
Zarubin, A.V., Properties of wire chamber gases . . . A283 (1989) 409
Zavala, E.P., see Andrade, E. . . . A287 (1990) 135
Zavarzin, V.G., see Anashkin, E.V. . . . A283 (1989) 752
Zazula, J.M. and K. Tesch, Analysis of the transverse shielding problem at proton accelerators using a hadronic cascade code with low energy particle modules . . . A286 (1989) 279
Zdarko, R.W., see Allaby, J.V. . . . A281 (1989) 291
Zdarko, R.W., see Benvenuti, A.C. . . . A284 (1989) 339
Zdarko, R.W., see SLD-WIC Collaboration . . . A289 (1990) 449
Zdarko, R.W., see Benvenuti, A.C. . . . A289 (1990) 463
Zdarko, R.W., see Benvenuti, A. . . . A289 (1990) 577
Zdarko, R.W., see Benvenuti, A.C. . . . A290 (1990) 353
Zech, G., see Weihs, W. . . . A281 (1989) 393
Zehnder, L., see Adeva, B. . . . A289 (1990) 35
Zeilinger, A., see Eder, K. . . . A284 (1989) 171
Zeitnitz, B., see Bodmann, B. . . . A286 (1989) 214
Zeitnitz, B., see Drexlin, G. . . . A289 (1990) 490
Zelenina, N.K., S.M. Ignatov, V.P. Karpenko, L.V. Maslova, O.A. Matveev, D.A. Popov, A.I. Terent'ev and A.A. Tomasov, A study of CdTe MSM structures . . . A283 (1989) 274
Zelenina, N.K., V.P. Karpenko, O.A. Matveev, A.I. Terent'ev and A.A. Tomasov, Double injection studies of MSM structures from semi-insulating CdTe crystals with varying concentrations of cadmium vacancies . . . A283 (1989) 279
Zelentsov, E.L., see Dragun, G.N. . . . A282 (1989) 493
Zelentsov, E.L., see Dragun, G.N. . . . A282 (1989) 495
Zell, E., see Bodmann, B. . . . A286 (1989) 214
Zell, K.O. and A. Dewald, Removal of points from plunger targets by electric discharges and a target for the differential plunger . . . A282 (1989) 142
Zeng, Y., see Adeva, B. . . . A289 (1990) 35
Zetti, F., see Bertolucci, S. . . . A289 (1990) 375
Zetti, F., see Carithers, W.C. . . . A289 (1990) 388
Zeuner, W., see Beard, C. . . . A286 (1989) 117
ZEUS Calorimeter Group, A. Andresen, A. Bamberger, U. Behrens, J. Crittenden, A. Caldwell, J. Dawson, J. Engelen, B. Frisken, D. Gilkinson, R. Hamatsu, D. Hanna, D. Hasell, L. Hervas, U. Holm, A. Fürtjes, R. Klanner, P. Kooijman, U. Kötz, M. Krämer, J. Krüger, G. Levman, P. Malecki, J. Martin, J. Mitchell, P. Patel, M. Rohde, T. Romanowski, E. Ros, W. Sippach, D. Schäcke, J. Straver, H. Tiecke, T. Tsurugai, W.

Vogel, K. Wick and C. Youngman, Response of a uranium–scintillator calorimeter to electrons, pions and protons in the momentum range 0.5–10 GeV/c A290 (1990) 95
ZEUS Calorimeter Group, U. Behrens, J. Crittenden, K. Dierks, G. Drews, J. Engelen, B. Frisken, R. Hamatsu, D. Hanna, U. Holm, M.A. Garcia, D. Hasell, T. Hasegawa, R. Klanner, O. Köll, P. Kooijman, U. Kötz, M. Krämer, J. Krüger, J. Lehmann, G. Levman, D. Lüke, J. Martin, P. Neelin, M. Rohde, E. Ros, F. Selonke, G. Smith, G. Stairs, J. Straver, H. Tiecke, J.F. Trocóniz, T. Tsurugai, W. Vogel, K. Wick, M. Wülker and C. Youngman, Test of the ZEUS forward calorimeter prototype A289 (1990) 115
ZEUS-UK Collaboration: C.B. Brooks, F.W. Bullock, R.J. Cashmore, R.C. Devenish, B. Foster, T.J. Fraser, M.D. Gibson, R.S. Gilmore, D. Gingrich, N. Harnew, J.C. Hart, G.P. Heath, J. Hiddleston, A.R. Holmes, A.K. Jamdagni, T.W. Jones, T.J. Llewellyn, K.R. Long, G.J. Lush, J. Malos, N.C. Martin, I. McArthur, N.A. McCubbin, D. McQuillan, D.B. Miller, M.M. Mobayyen, C. Morgado, J. Nash, G. Nixon, A.G. Parham, B.T. Payne, J.H.C. Roberts, G. Salmon, D.H. Saxon, A.J. Sephton, D. Shaw, T.B. Shaw, P.D. Shield, J. Shulman, I. Silvester, S. Smith, D.E. Strachan, R.J. Tapper, S.M. Tkaczyk, L.W. Toudup, E.W. Wallis, R. Wastie, J. Wells, D.J. White, F.F. Wilson and K.L. Yeo, Development of the ZEUS central tracking detector A283 (1989) 477
Zevenbergen, L.A., see Aaron, W.S. A282 (1989) 147
Zeyen, C.M.E., see Forte, M. A284 (1989) 147
Zhang, C.S., M. Shibata, K. Kasahara and T. Yuda, A Monte Carlo calculation of electromagnetic cascade showers over a wide lateral and energy range in lead A283 (1989) 78
Zhang, D.H., see Adeva, B. A289 (1990) 35
Zhang, S.Y., see Adeva, B. A289 (1990) 35
Zhang, Y., see Kodama, K. A289 (1990) 146
Zhang, Z.P., see Adeva, B. A289 (1990) 35
Zhang, Z.P., see Adeva, B. A289 (1990) 335
Zhang, Z.P., see Adeva, B. A290 (1990) 115
Zhang Zhongmu, Lai Weiguan, Jiao Souhua and Si Houzhi, The 6 MV tandem project at SINR A287 (1990) 33
Zhengde, H., see Zhong, C. A281 (1989) 384
Zhigunov, V.P., T.K. Koroleva and A.A. Spiridonov, On the application of a priori cascade information when reconstructing hadron parameters in a calorimeter A281 (1989) 480
Zhiromsky, V.V., see Gadzhiev, A.M. A282 (1989) 728
Zhong, C., H. Zhengde and C. Qun, Gain stability of photomultipliers at high variable counting rates A281 (1989) 384
Zhou, B., A. Marin, T. Coan, J. Beatty and S. Ahlen, Using dimethylether as a drift gas in a high precision drift tube detector A287 (1990) 439
Zhou, B., see Adeva, B. A289 (1990) 35
Zhou, J.F., see Adeva, B. A289 (1990) 35
Zhou, Z.P., see Adeva, B. A289 (1990) 35
Zhu, R.Y., see Ma, H. A281 (1989) 469
Zhu, R.Y., see Adeva, B. A289 (1990) 35
Zhu, Y. and R.B. Gregory, Analysis of positron annihilation lifetime data presented as a sum of convoluted exponentials with the program "SPLMOD" A284 (1989) 443
Zhu, Y., see Gregory, R.B. A290 (1990) 172
Zhurakovskii, A.P. and A.A. Maiste, Luminescence excitation measurements at the VEPP-2M station storage ring equipped with an RSM-500 monochromator A282 (1989) 613
Zicari, C., see De Felice, P. A286 (1989) 514
Zichichi, A., see Adeva, B. A289 (1990) 35
Zichichi, A., see LAA-LAD Group A289 (1990) 351
Ziegler, M., see ASTERIX Collaboration A286 (1989) 76
Ziegler, N.F., see Jones, C.M. A287 (1990) 68
Ziemann, T., see Kemmer, J. A288 (1990) 92
Ziemann, T., see Rehak, P. A288 (1990) 168
Ziemann, T., see Strüder, L. A288 (1990) 227
Zigel, M.N.Yakimenko.R., see Alexandrov, Yu.M. A282 (1989) 725
Zijderhand, F., F.P. Jansen, C. Alderliesten and C. Van der Leun, Detector-efficiency calibration for high-energy gamma-rays A286 (1989) 490
Zimmer, G., see Schoeneberg, U. A288 (1990) 191
Zimmermann, T., see Carithers, W.C. A289 (1990) 388
Zinevich, N.I., see Anashin, V.V. A282 (1989) 386
Zinin, E.I., see Anashin, V.V. A282 (1989) 386
Zinkann, G.P., see Den Hartog, P.K. A287 (1990) 235
Ziock, H.J., see Sadrozinski, H.F.-W. A288 (1990) 76
Zito, G., see Bagliesi, G. A286 (1989) 61
Zitoun, R., see Amery, A. A283 (1989) 502

Zofka, M., see Adeva, B. . . . A289 (1990) 35
Zogg, H., see Masek, J. . . . A288 (1990) 104
Zografos, K., see Lone, S. . . . A288 (1990) 507
Zografos, K., see Bock, R.K. . . . A289 (1990) 534
Zoll, J., see Adeva, B. . . . A289 (1990) 35
Zolotarev, K.V., see Dragun, G.N. . . . A282 (1989) 493
Zolotarev, K.V., see Dragun, G.N. . . . A282 (1989) 495
Zolotarev, K.V., see Török, Sz. . . . A282 (1989) 499
Zolotarev, K.V., see Khvostova, V.P. . . . A282 (1989) 516
Zolotarev, K.V., see Baryshev, V.B. . . . A282 (1989) 570
Zolotarev, K.V., see Tarasov, L.S. . . . A282 (1989) 677
Zoran, V., see Marinescu, L. . . . A287 (1990) 127
Zorev, N.N., see Alexandrov, Yu.M. . . . A282 (1989) 551
Zorin, Yu.A., see Dragun, G.N. . . . A282 (1989) 493
Zorin, Yu.A., see Dragun, G.N. . . . A282 (1989) 495
Zorn, C., see Majewski, S. . . . A281 (1989) 497
Zorn, C., see Majewski, S. . . . A281 (1989) 500
Zrelov, V.P., see Budyashova, S.Yu. . . . A281 (1989) 667
Zschech, E., W. Blau, V.K. Fjodorov and M.A. Sheromov, EXAFS investigation of $Fe_{1-x}B_x$ amorphous alloys A282 (1989) 586
Zschech, E. and P. Rennert, Phase shifts in the EXAFS of crystalline iron – Experimental results and theoretical calculations . . . A282 (1989) 658
Zubkov, N.I., see Anashin, V.V. . . . A282 (1989) 369
Zubkov, N.I., see Anashin, V.V. . . . A282 (1989) 386
Zucchiatti, A., C. Bernini, G. Gervino and A. Rottura, Temperature behaviour of a BGO prototype for use on a 4π high energy spectrometer . . . A281 (1989) 341
Zumerle, G., see Lippi, I. . . . A286 (1989) 243
Zybert, R., see Garabatos, C. . . . A283 (1989) 553
Zybert, R., see Cherney, M. . . . A283 (1989) 796

SUBJECT INDEX TO VOLUMES A281–A290

Accelerators, Beam Handling and Targets

Focusing system of the KEK positron generator, Enomoto, A., I. Sato, A. Asami, G. Horikoshi and J. Tanaka . A281 (1989) 1
Impedance matching of the rf power-coupling loop for heavy-ion linear accelerators, Furuno, K., N.J.S. Hansen, P. Knudsen, J. Westergaard, K.A. Hagemann, M.C. Olesen, J. Borggreen and B. Elbek A281 (1989) 10
A new method for the precise absolute calibration of polarization effects in spin-1/2–spin-0 scattering applied to p–α scattering at 25.68 MeV and $\theta_{lab} = 117.5°$, Clajus, M., P. Egun, W. Grüebler, P. Hautle, A. Weber, P.A. Schmelzbach, W. Kretschmer, M. Haller, C.J. Prenzel, A. Rauscher, W. Schuster and R. Weidmann . . A281 (1989) 17
Beam-envelope calculations of space-charge loaded beams in MeV dc ion-implantation facilities, Urbanus, W.H., J.G. Bannenberg, S. Doorn, F.W. Saris, R. Koudijs, P. Dubbelman and W. Koelewijn A281 (1989) 28
Programs for the calculation of dynamics of charged particles in three-dimensional electric and magnetic fields, Shakun, N.G. and M. Ryšavý A281 (1989) 37
UHV compatible cylindrical mirror analyzer designed for angular measurements, De Ferrariis, L.F., F. Tutzauer and E.A. Sánchez A281 (1989) 43
Electromagnetic particle-in-cell simulations of the self-magnetically insulated B_θ-diode, Westermann, T. A281 (1989) 253
Precision measurements of the SLC spectrometer magnets, Levi, M., J. Nash and S. Watson A281 (1989) 265
Investigation of collimated fast-neutron beams, Hohlweck, M., T. Köble, F. Meyer, M. Ockenfels, J. Weltz and W. Von Witsch A281 (1989) 277
Multiwire proportional chamber for the IUCF cooler ring, Solberg, K., A. Eads, J. Goodwin, P. Pancella, H.O. Meyer, T. Rinckel and A. Ross A281 (1989) 283
Space charge limits in proton synchrotrons, Parzen, G. A281 (1989) 413
Niobium superconducting quarter-wave resonators as a heavy ion accelerating structure, Takeuchi, S., T. Ishii and H. Ikezoe A281 (1989) 426
Transmission-line impedance measurements for an advanced hadron facility, Walling, L.S., D.E. McMurry, D.V. Neuffer and H.A. Thiessen A281 (1989) 433
Segmented ionization chambers for high intensity beam measurements, Chi, C.Y., N. Kondakis, W. Lee, B. Rubin, R. Seto, C. Stoughton, G. Tzanakos, W.P. Hogan, E. O'Brien, T. O'Halloran, K. Reardon, S. Salman, P.D. Sheldon, G.W. Sullivan, B. Blumenfeld, L. Chichura, C.Y. Chien, J. Krizmanic, E. Lincke, W. Lyle, L. Lueking, L. Madansky and A. Pevsner A281 (1989) 448
A combined system for the generation of an intense cold neutron beam with a medium power research reactor (*Letter to the Editor*), Utsuro, M. and K. Okumura A281 (1989) 649

Proceedings of the 14th World Conference of the International Nuclear Target Development Society organized in cooperation with the IAEA-International Nuclear Data Committee (Darmstadt, FRG, September 5–9, 1988)

Section I. Problematics of targets in heavy-ion experiments

Welcome address to the INTDS & IAEA-INDC conference at GSI, Kienle, P. A282 (1989) 1
On the necessity of alternative methods to determine sample thicknesses and masses, Wagemans, C. A282 (1989) 4
Case studies of target properties in nuclear spectroscopy, Dionisio, J.S., Ch. Vieu, J.M. Lagrange, M. Pautrat, J. Vanhorenbeeck and A. Passoja A282 (1989) 10
The preparation of biological targets for heavy-ion experiments up to 20 MeV/u, Kraft-Weyrather, W., G. Kraft, S. Ritter, M. Scholz and J.A. Stanton A282 (1989) 22
On-line measurements of target properties in experiments for the investigation of the heaviest known elements, Münzenberg, G., F.P. Hessberger, W. Faust, H. Folger, S. Hofmann, K.-H. Schmidt, H.-J. Schött and P. Armbruster A282 (1989) 28
Targets for heavy-ion induced reactions at RIKEN, Gono, Y. A282 (1989) 36
The part of targets in heavy-ion positron spectroscopy, Bokemeyer, H. and H. Folger A282 (1989) 40

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Section II. Targets and target systems for high-energy and (or) heavy-ion beams

Three diverse target preparations: ^{14}C (12 mg/cm^2), $^{71}Ga^{24}Mg$ (12 mg/cm^2 ^{71}Ga, 3 mg/cm^2 ^{24}Mg), and $^{66,67}Zn$ (1.8–14.9 mg/cm^2), Lozowski, W.R. . . . A282 (1989) 54
Precision nuclear targets for Drell–Yan cross section measurements at 800 GeV, Gursky, J.C., H. Baer, F.F. Flick and D. Gallegos . . . A282 (1989) 62
Nonmetallic targets for heavy ion experiments, Maier-Komor, P. . . . A282 (1989) 67
Isotopic tellurium targets for heavy-ion nuclear physics produced by vapor deposition, Greene, J.P. and G.E. Thomas . . . A282 (1989) 71
Uranium targets sandwiched between carbon layers for use on target wheels and on a wobbler in heavy-ion bombardments, Folger, H., W. Hartmann, J. Klemm and W. Thalheimer . . . A282 (1989) 73
Targets consisting of free charged particles, Müller, A. . . . A282 (1989) 80
Internal gas-jet target for the ESR at GSI, Gruber, A., W. Bourgeois, B. Franzke, A. Kritzer and C. Treffert . . . A282 (1989) 87
Targets for heavy ion beams for beam–plasma interaction research, Jacoby, J. . . . A282 (1989) 94
Target development for a radioactive ion beam, Arnould, M., F. Baeten, D. Darquennes, Th. Delbar, C. Dom, M. Huyse, Y. Jongen, M. Lacroix, P. Lipnik, M. Loiselet, G. Reusen, G. Ryckewaert, S. Wa Kitwanga, P. Van Duppen, J. Vanhorenbeeck, J. Vervier and S. Zaremba . . . A282 (1989) 99

Section III. Targets prepared by electrodeposition and oxide reduction

Preparation of actinide targets by eletrodeposition, Trautmann, N. and H. Folger . . . A282 (1989) 102
^{243}Am targets for nuclear fission experiments: requirements and realisation, Mast, H., R. Eykens, J. Pauwels and C. Wagemans . . . A282 (1989) 107
On the preparation of self-supporting ruthenium targets by electroplating, Cecchi, A. and P. Sona . . . A282 (1989) 110
Preparation of ductile Zr from ZrO_2, Maier, H.J. . . . A282 (1989) 113
Preparation of elemental Si from SiO_2, Maier, H.J. . . . A282 (1989) 116
Silicon targets, Michielsen, A.J. and P. Decowski . . . A282 (1989) 121

Section IV. Various targets and preparation procedures

New technique for producing thin boron films, Thomas, G.E. . . . A282 (1989) 124
Special techniques of nuclear target preparation, Maier, H.J., H.U. Friebel, D. Frischke and R. Grossmann . . . A282 (1989) 128
Ferromagnetic gadolinium foils for transient field experiments, Maier-Komor, P. . . . A282 (1989) 133
A new ionic-erosion method for self-supporting targets, Blanc, R., O. De Gabrielli, J. Menet and J.P. Richaud . A282 (1989) 136
Preparation by rolling of thin cadmium and tin foils and cadmium/lead and tin/lead bonded targets, Manente, G. and R. Pengo . . . A282 (1989) 140
Removal of points from plunger targets by electric discharges and a target for the differential plunger, Zell, K.O. and A. Dewald . . . A282 (1989) 142

Section V. Stripper and neutralizer foils

Development and preparation of thin, supported targets and stripper foils, Aaron, W.S., M. Petek, L.A. Zevenbergen and J.R. Gibson . . . A282 (1989) 147
Stripper foil requirements for optimum ion transmission at the Munich MP-tandem, Dollinger, G. and P. Maier-Komor . . . A282 (1989) 153
A simple preparation method for carbon stripper foils, Xu, G., J. Wang, X. Luo and S. Guan . . . A282 (1989) 161
Hybrid-type long-lived carbon stripper foils, Sugai, I., T. Hattori, H. Muto, Y. Takahashi, H. Kato and K. Yamazaki . . . A282 (1989) 164
Pinhole plate diagnostic for neutral particle beam accelerator, Barthell, B.L. and T.A. Archuleta . . . A282 (1989) 169
Large area polyimide foils for heavy ion gas detector systems, Maier-Komor, P. . . . A282 (1989) 172
Production of large screen-mounted aluminium neutralizer foils, Stoner Jr, J.O. . . . A282 (1989) 176

Section VI. Activity reports of target laboratories

Developments at the LNL target laboratory, Pengo, R. . . . A282 (1989) 180
Experiences in the preparation of thin layers for accelerator measurements, Golser, R., P. Bauer, M. Geretschläger and D. Semrad . . . A282 (1989) 185
The target laboratory of the Pelletron accelerator at the University of São Paulo, Ueta, N. and W.G.P. Engel . . A282 (1989) 188
Recent developments in the target facilities at Argonne National Laboratory, Green, J.P. and G.E. Thomas . . . A282 (1989) 191

Section VII. Characterizing targets and radiation damages

Determination of the uniformity of uranium fission deposits using Rutherford backscattering spectrometry and alpha-particle scanning, Wasson, O.A. and R.A. Schrack . . . A282 (1989) 194

Fast determination of structure, homogeneity, and composition of targets for heavy-ion experiments from backscattering and PIXE with 1.6-MeV protons, Kraft, D., K.E. Stiebing, K. Bethge, E. Schmidt, H. Bokemeyer and H. Folger . . . A282 (1989) 199
Influence of heavy-ion bombardment on the structure of targets for atomic and nuclear interaction studies, Stiebing, K.E., D. Kraft, P. Salabura, K. Bethge, H. Bokemeyer and H. Folger . . . A282 (1989) 206
Target characterization by fast ion impact, Lorenzen, P., H. Rothard, K. Kroneberger, J. Kemmler, M. Burkhard and K.O. Groeneveld . . . A282 (1989) 213
A study of the homogeneity of aluminium–cobalt alloys for neutron dosimetry, Ingelbrecht, C., F. Peetermans and J. Pauwels . . . A282 (1989) 217
Heavy-ion irradiation damage in carbon stripper foils, Dollinger, G. and P. Maier-Komor . . . A282 (1989) 223
Erosion of solid krypton targets by protons measured with PIXE, Osipowicz, Th. and K.P. Lieb . . . A282 (1989) 236
Properties of evaporated target foils studied by computer simulation of ballistic aggregation, Stoner Jr, J.O. . . . A282 (1989) 242

Section VIII. Isotope separations and production of radioisotopes

Ions penetrating through ion-optical systems and matter – non-Liouvillian phase-space modelling, Geissel, H., Th. Schwab, P. Armbruster, J.P. Dufour, E. Hanelt, K.-H. Schmidt, B. Sherrill and G. Münzenberg . . . A282 (1989) 247
Isotope separation program – Present and future, Tracy, J.G. . . . A282 (1989) 261
Production and application of stable enriched isotopes in the USSR, Kudziev, A.G. . . . A282 (1989) 267
Gas centrifugation of research isotopes, Roberts, W.L. . . . A282 (1989) 271
Enrichment of chromium isotopes by gas centrifugation, Szady, A.J. . . . A282 (1989) 277
Production of isotopically enriched ^{6}Li targets by ion implantation, Eule, R.P., G. Domogala, H. Freiesleben, L. Ricken and K. Brand . . . A282 (1989) 281
Stable enriched isotopes and the use of isotope targets for radioisotope productions, Suvorov, I.A. and A.N. Tcheltsov . . . A282 (1989) 286
Target development for medical radioisotope production at a cyclotron, Qaim, S.M. . . . A282 (1989) 289
Target preparation and recovery of enriched isotopes for medical radionuclide production, Lambrecht, R.M., M. Sajjad, R.H. Syed and W. Meyer . . . A282 (1989) 296

Section IX. Fissioning targets and neutron cross-section measurements

A historical target: ammonium diuranate, Herrmann, G. . . . A282 (1989) 301
Fission foil characteristics, Drapchinsky, L.V. . . . A282 (1989) 308
The influence of target impurities on the accuracy of reaction cross section measurements, Cheng Xiaowu . . . A282 (1989) 312
Semiconductor detectors for the calibration of fissile radionuclide targets, Lashaev, S.I., S.M. Soloviev and P.S. Soloshenkov . . . A282 (1989) 315
On the influence of sample and target properties on the results of energy-dependent cross section measurements, Winkler, G. . . . A282 (1989) 317
The influence of water absorption in samples for neutron capture cross section measurements, Mizumoto, M. and M. Sugimoto . . . A282 (1989) 324

Section X. Tritium targets and neutron production

Tritium-processing operations at the Oak Ridge National Laboratory with emphasis on safe-handling practices, Kobisk, E.H., D.W. Ramey, W.S. Aaron, J.A. Tompkins, K.W. Haff, J.R. Devore and H.L. Adair . . . A282 (1989) 329
A tritium safety-system for the intense neutron generator INGE-1, Gohs, U. and D. Seeliger . . . A282 (1989) 341
Tritium solid targets for intense D–T neutron production and the related problems, Sumita, K. . . . A282 (1989) 345
The evaluation of the average energy parameters for spectra of quasimonoenergetic neutrons produced in (p,n)-reactions on solid tritium targets, Sosnin, A.N. and V.S. Shorin . . . A282 (1989) 354
Problems associated with the production of monoenergetic neutrons, Böttger, R., S. Guldbakke, H. Klein, H. Schölermann, H. Schuhmacher and H. Strzelczyk . . . A282 (1989) 358

A new ion source for the ISOL system of the TANDAR accelerator, Huck, H., A. Jech, G. Martí, J. Orecchia, M.L. Pérez, M. Ramírez and J.J. Rossi . . . A283 (1989) 1
The truncated double cosine theta superconducting septum magnet, Krienen, F., D. Loomba and W. Meng . . . A283 (1989) 5
Self-supporting ruthenium targets by electroplating (*Letter to the Editor*), Cecchi, A. and P. Sona . . . A283 (1989) 107
Beam dynamics of alternating phase focused linacs, Okamoto, H. . . . A284 (1989) 233
Electron cooling of positrons, Artamonov, A.S. and Ya.S. Derbenev . . . A284 (1989) 248
Equilibrium values between intrabeam scattering and electron cooling, Simonsson, A. . . . A284 (1989) 264
Real time harmonic closed orbit correction, Yu, L.H., E. Bozoki, J. Galayda, S. Krinsky and G. Vignola . . . A284 (1989) 268
Nb/Cu superconducting rf cavity made by a new method, Ozaki, M., S. Mukoyama, H. Ito and I. Oishi . . . A284 (1989) 286
The surface resistance of a superconducting lead–tin alloy, Dietl, L. and U. Trinks . . . A284 (1989) 293

Magnetic field control and orbit studies for H^- acceleration in a 65 MeV cyclotron, Mandrillon, P. and R. Ostojic A285 (1989) 395
A source of polarized electrons based on photoemission of GaAsP, Hartmann, W., D. Conrath, W. Gasteyer, H.J. Gessinger, W. Heil, H. Kessler, L. Koch, E. Reichert, H.G. Andresen, T. Kettner, B. Wagner, J. Ahrens, J. Jethwa and F.P. Schäfer A286 (1989) 1
Digital image processing diagnostics for the HELIA and HERMES III accelerators, Mastin, G.A. and T.W.L. Sanford A286 (1989) 9
The luminosity performance of CESR, Jackson, G. and R.H. Siemann A286 (1989) 17
Beam–beam deflection as a beam tuning tool at the SLAC linear collider, Koska, W., P. Bambade, W. Kozanecki, N. Phinney and S.R. Wagner A286 (1989) 32
Measurement of the absolute value of mean energy of particles in collider beams, Karabekov, I.P., D.L. Egikian and C. Yang A286 (1989) 37
A segmented high pressure gas target for (n, p) studies at TRIUMF, Henderson, R.S., B.W. Pointon, O. Häusser, A. Celler, R.L. Helmer, K.P. Jackson, B.W. Larson, C.A. Miller and M.C. Vetterli A286 (1989) 41

Proceedings of the Fifth International Conference on Electrostatic Accelerators and Associated Boosters (Strasbourg, France/Heidelberg, FRG, May 24–30, 1989)

Section I. Large electrostatic accelerators

Large electrostatic accelerators, Hyder, H.R.McK. A287 (1990) 1
Vivitron techniques, Letournel, M. A287 (1990) 7
Electrostatic accelerator dielectrics. A workshop on insulators and conductors in electrostatic machines, Cooke, C.M. A287 (1990) 12
The Strasbourg MP-10 tandem: an accelerator used actually for nuclear physics experiments and as a test bench for the Vivitron, Haas, F., G. Heng, C. Kempfer and F. Osswald A287 (1990) 18
Status of the Catania tandem as injector of the superconducting cyclotron, Ciavola, G., L. Calabretta, G. Cuttone, G. Raia and V. Scuderi A287 (1990) 21
Status report of Orsay MP 9, Waast, B., L. Le Bervet, J.M. Curaudeau, P. Lambert, A. Le Goff and J.M. Maison A287 (1990) 26
Status of NSC Pelletron Laboratory, Mehta, G.K. A287 (1990) 31
The 6 MV tandem project at SINR, Zhang Zhongmu, Lai Weiguan, Jiao Souhua and Si Houzhi A287 (1990) 33
The main aspects of the Vivitron mechanical structure, Gaudiot, G., R. Koenig, T. Estève, R. Peter and A. Strebel A287 (1990) 37

Section II. Electrical discharges – tubes and related problems

The insulation of high voltages in an accelerator environment: recent advances, Latham, R.V. A287 (1990) 40
Electrostatic accelerator tubes – recent progress and future directions, Joy, T. A287 (1990) 48
NEC accelerator tube upgrade: 16.7 MV in a 14UD, Weisser, D.C. and M.D. Malev A287 (1990) 64
Operational experience with compressed geometry acceleration tubes in the Oak Ridge 25URC tandem accelerator, Jones, C.M., D.L. Haynes, R.C. Juras, M.J. Meigs and N.F. Ziegler A287 (1990) 68
Observation of microparticles produced in an acceleration tube, Seki, S., G. Korschinek and J. Sellmair A287 (1990) 72
Voltage surges in a radial model of the Vivitron, Staniforth, J.A. A287 (1990) 76

Section III. New developments in electrostatic machines

Electrostatic accelerators for free electron lasers, Elias, L.R. A287 (1990) 79
A new accelerator tube and column for a horizontal 8 MV tandem, Sundquist, M.L., R.D. Rathmell and J.E. Raatz A287 (1990) 87
A new 3.5 MV single stage accelerator for a nuclear microprobe, Henry, P. and R. Cosmo A287 (1990) 90
Status of the Rehovot EN tandem accelerator free electron laser, Ben-Zvi, I., B.V. Elkonin, A. Fruchtman, J.S. Sokolowski, A. Gover, E. Jerby, H. Kleinman, B. Mandelbaum, A. Rosenberg, J. Shiloh, G. Hazak and O. Shahal A287 (1990) 93
A charging system for the Vivitron, Helleboid, J.-M. A287 (1990) 99
Charging belt noise in a Van de Graaff accelerator, Trainor, T.A. A287 (1990) 103
Vacuum distribution in the Vivitron accelerating tube, Heugel, J., Ch. Brandt, C. Delhomme, Ch. Krieg, F. Kustner, R. Riehl, Ch. Roth, B. Schlewer and A. Weber A287 (1990) 109
Resistor assemblies for NEC accelerators, Weisser, D.C. A287 (1990) 113
Resistor potential divider for the 8 UD, VICKSI Group, presented by D. Renner A287 (1990) 117
Development of a knowledge-based control system for a model FN Van de Graaff accelerator: an operator's perspective, Stark, J.W. and W.F.S. Poehlman A287 (1990) 119

The 3 MV Van de Graaff of the "Centre d'Etudes et de Recherches par Irradiation", Blondiaux, G., J.L. Debrun, A. Giovagnoli, D. Mollimard, J. Briaud, G. Goin and L. Le Polotec A287 (1990) 125
A concept for earthquake protection of the Bucharest tandem accelerator, Marinescu, L., V. Zoran, S. Dobrescu, G. Pascovici, G. Semenescu, G. Marmureanu, H. Sandi and T. Sireteanu A287 (1990) 127
Improvements at the Cologne FN tandem accelerator, Dewald, A. and L. Steinert A287 (1990) 132
Energy calibration of a 5.5 MV Van de Graaff accelerator using a time-of-flight technique, Andrade, E., M. Feregrino, E.P. Zavala, J.C. Pineda, R. Jiménez and A. Jaidar A287 (1990) 135

Section IV. Particle beams

Recent advancements in high intensity heavy negative ion sources based on the sputter principle, Alton, G.D. A287 (1990) 139
Extensive beam transmission measurements in the Strasbourg MP tandem, Rebmeister, R., F. Haas, C. Muller and A. Nadji A287 (1990) 150
Light heavy-ion and molecular beams from a radio-frequency ion source, Bartha, L., Á.Z. Kiss, E. Koltay and Gy. Szabó A287 (1990) 156
A new design for the low-energy optics of the Lund Pelletron accelerator, Hellborg, R., K. Håkansson and G. Skog A287 (1990) 161
MP tests for the Vivitron process control, Lutz, J.R., J.C. Marsaudon, R. Baumann, G. Biechel, E. Kapps, R. Knaebel, C. Muller, J.A. Persigny, G. Rech and D. Stadelmann A287 (1990) 166
The tandem Triton control system, Rohrer, L., H. Schnitter and B. Walchshäusl A287 (1990) 170
The beam emittance of negative ion sources, Nadji, A., F. Haas, G. Heng, Ch. Muller and R. Rebmeister A287 (1990) 173
High-performance low-maintenance sputter source, Trainor, T.A., G.C. Harper and D.J. Hodgkins A287 (1990) 176
Transit time stabilization for ion beam bunches from the VICKSI 8UD-tandem, Pelzer, W. A287 (1990) 180
A precision injector for the tandem–booster system at Seattle, Trainor, T.A., J.G. Douglas, G.C. Harper, D.J. Hodgkins and L.B. Van Houten A287 (1990) 184

Section V. Electrostatic accelerators in nuclear, atomic and applied physics

Nuclear reactions below the Fermi-energy regime: the unique physics of a finite multiparticle system, Von Oertzen, W. A287 (1990) 188
Atomic physics using large electrostatic accelerators, Datz, S. A287 (1990) 200
Application of electrostatic accelerators – A new dimension in materials science, Bethge, K. A287 (1990) 210

Section VI. Boosters

Linac boosters for electrostatic machines, Ben-Zvi, I. A287 (1990) 216
Superconducting cyclotrons, Trinks, U. A287 (1990) 224
Operational experience of the ATLAS accelerator, Den Hartog, P.K., J.M. Bogaty, L.M. Bollinger, B.E. Clifft, S.L. Craig, R.E. Harden, P. Markovich, F.H. Munson, J.M. Nixon, R.C. Pardo, D.R. Phillips, K.W. Shepard, I.R. Tilbrook and G.P. Zinkann A287 (1990) 235
A retrofit/upgrade of the Stony Brook linac, Noé, J.W., R. Arora, J. Rico, J. Sikora and H. Uto A287 (1990) 240
Status of and operating experience with the University of Washington superconducting booster linac, Storm, D.W., J.M. Amsbaugh, D.T. Corcoran, G.C. Harper, M.A. Howe, R.E. Stowell, W.G. Weitkamp, T.D. Van Wechel and D.I. Will A287 (1990) 247
The ALPI project at the Laboratori Nazionali di Legnaro, Fortuna, G., R. Pengo, G. Bassato, I. Ben-Zvi, J.D. Larson, J.S. Sokolowski, L. Badan, A. Battistella, G. Bisoffi, G. Buso, M. Cavenago, F. Cervellera, A. Dainelli, A. Facco, P. Favaron, A. Lombardi, S. Marigo, M.F. Moisio, V. Palmieri, A.M. Porcellato, K. Rudolph, R. Preciso and B. Tiveron A287 (1990) 253
Development of the JAERI tandem superconducting booster, Takeuchi, S., T. Ishii, H. Ikezoe and Y. Tomita .. A287 (1990) 257
Operating experience with the 50 helix superconducting resonators of the Saclay heavy ion linac, Cauvin, B., J. Girard and G. Ramstein A287 (1990) 263
One year of operation at the Heidelberg TSR, Krämer, D., G. Bisoffi, M. Blum, A. Friedrich, Ch. Geyer, B. Holzer, H.W. Heyng, D. Habs, E. Jaeschke, M. Jung, W. Ott, R.E. Pollock, R. Repnow, F. Schmitt and M. Steck A287 (1990) 268
The deflector–pickup system: a novel approach to measure online the energy spread of dc ion beams, Bongardt, K., A.K. Mitra, M. Sauer and H. Stockhorst A287 (1990) 273
Beam optics studies for the ALPI post-accelerator, Dainelli, A., A. Facco, A. Lombardi, F. Cervellera and M.F. Moisio A287 (1990) 279
Beam diagnostics for the University of Washington superconducting booster, Weitkamp, W.G., J.F. Amsbaugh, R.C. Connolly, H. Fauska, T.J. Irwin, M.A. Howe, J.M. LaCroix, D.D. Leach and H.P. Readdy A287 (1990) 283
The beam matching for the tandem–Tritron accelerator system, Hinderer, G. and M. Leu A287 (1990) 287
Beam optics and dynamics, calculations and measurements at the Saclay superconducting booster, Ramstein, G., B. Cauvin, J.P. Fouan, J. Girard and J. Roos A287 (1990) 291

Section VII. New developments in superconducting accelerator structure

High T_c superconductors for accelerator cavities, Piel, H. A287 (1990) 294
A short superconducting RFQ resonator for slow ion beams, Ben-Zvi, I. A287 (1990) 306
Investigation of the possibility of applying the vacuum brazing technology to the joints of a superconducting QWR, Pengo, R., P. Favaron, P. Buso, L. Badan and S. Marigo A287 (1990) 309

Section VIII. Storage rings

A new generation of small cooling rings, Pollock, R.E. A287 (1990) 313
Radiofrequency stacking experiments at the Heidelberg test storage ring, Bisoffi, G., M. Grieser, E. Jaeschke, D. Krämer and A. Noda A287 (1990) 320
Electron cooling of heavy ions, Steck, M., G. Bisoffi, M. Blum, A. Friedrich, C. Geyer, M. Grieser, B. Holzer, E. Jaeschke, M. Jung, D. Krämer, K. Matl, W. Ott and R. Repnow A287 (1990) 324
Further results and evaluation of electron cooling experiments at LEAR, Poth, H., W. Schwab, B. Seligmann, M. Wörtge, A. Wolf, S. Baird, J. Bosser, M. Chanel, H. Haseroth, C.E. Hill, R. Ley, D. Manglunki, D. Möhl, G. Tranquille and J.L. Vallet A287 (1990) 328

Closing address, Paul, P. A287 (1990) 333

An ECR source for Li^{3+} ions, Ernst, R., L. Friedrich, E. Huttel and F. Schulz A287 (1990) 337
La source caprice 10 GHz en mode harmonique $2(\omega_{HF} - \omega_{ce}) = 0$, Jacquot, B. et M. Pontonnier A287 (1990) 341
A new method of H^- beam-energy and energy-spread diagnostics, Holtkamp, D.B. and C.R. Quick A287 (1990) 348
Three-dimensional field calculation for engineering design of IH linacs, Satoh, K., S. Kamohara and E. Arai . . A287 (1990) 353
Slow positron beam at the 90 MeV linac of Ghent University, Paridaens, J., D. Segers, M. Dorikens and L. Dorikens-Vanpraet A287 (1990) 359
An analytical method to characterize the performance of multiple section straight-sided neutron guide systems, Copley, J.R.D. A287 (1990) 363
Determination of the degree of dissociation of an atomic hydrogen target by a recoil-ion time-of-flight method, Euler, J., J. Ullrich, H. Schmidt-Böcking and H. Vogt A287 (1990) 374
A survey of the beam extraction from the Princeton AVF cyclotron, Huang, Y., M. Yoon and S. Oh A288 (1990) 293
The determination of the geometric parameters of the extraction system in an rf ion source, Mingxiu, M., K.G. Stephens, B.J. Sealy and J.E. Mynard A288 (1990) 303
An automated focal point positioning and emittance measurement procedure for the interaction point of the SLC, Phinney, N., P. Bambade, W. Kozanecki and W. Koska A288 (1990) 308
Online monitoring of dispersion functions and transfer matrices at the SLC, Emma, P., T.H. Fieguth and T. Lohse A288 (1990) 313
Monitoring system for relativistic particles and nuclei, Damdinsuren, C., V.M. Dyachenko, P. Kozma and K.D. Tolstov A288 (1990) 319
Experimental study of beam emittance and brightness from a high-power field emission electron gun, Hwang, C.S., M.S. Yang, F.C. Lin, M.W. Wu and W.S. Hou A288 (1990) 324
Simultaneous bunching of different ion species in a periodic focusing transport channel, Wojke, R.G.C., W.H. Urbanus, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort A288 (1990) 329
On the transverse particle stability in highly spiraled magnetic structures, Ostojic, R. and P. Mandrillon A288 (1990) 339
A soft X-ray grating monochromator for undulator radiation, Reininger, R. and V. Saile A288 (1990) 343
Nuclear spin polarized alkali beams (Na, Li): optical pumping with electro-optically modulated laser beam, Reich, H. and H.J. Jänsch A288 (1990) 349
Studies related to the production of an isotopically pure ^{22}Na radioactive target, D'Auria, J.M., M. Dombsky, L. Buchmann and J.S. Vincent A288 (1990) 354
The production of isotopic ^{36}S targets by ion implantation into carbon foils, Fifield, L.K. and N.A. Orr A288 (1990) 360
The ELFA project: guidelines for a high-gain FEL with short electron bunches, Bonifacio, R., I. Boscolo, F. Casagrande, G. Cerchioni, R. Corsini, A. Cucchetti, L. De Salvo Souza, D. Fadini, A. Lombardi, P. Pierini and N. Piovella A289 (1990) 1
Efficient recuperator of intense electron beam energy, Sharapa, A.N. and A.V. Shemyakin A289 (1990) 14
Testing a multilayer mirror system in use for polarised neutrons, De Haan, V.O., W.H. Kraan and A.A. Van Well A289 (1990) 17
Measurement of the delayed neutron fraction and correction of small angle scattering data from a pulsed spallation source, Epperson, J.E., J.M. Carpenter, P. Thiyagarajan and B. Heuser A289 (1990) 30
A new $^{15}N^+$ ion beam source (*Letter to the Editor*), Naoumidis, A. and V. Katselis A289 (1990) 325
Comparison of two types of low-β rf linacs: MEQALAC and RFQ, Urbanus, W.H., R.G.C. Wojke, J.G. Bannenberg, H. Klein, A. Schempp, R.W. Thomae, T. Weis and P.W. Van Amersfoort A290 (1990) 1

Operational experience with optical matching in the SLC final focus system, Bambade, P., P. Burchat, D. Burke, W. Ford, C. Hawkes, W. Koska, W. Kozanecki, T. Lohse, T. Mattison, N. Phinney, M. Placidi, D. Ritson and S. Wagner A290 (1990) 11
Study of modified sextupoles for dynamic-aperture improvement in synchrotron radiation sources, Cornacchia, M. and K. Halbach A290 (1990) 19
A liquid helium target for large solid angle coincidence experiments, Lefevere, Y., J.H.M. Bijleveld, M. Doets, N. Idskes, T.S. Bauer, H. Breuer and M.A. Khandaker A290 (1990) 34
The design and performance of the FNAL high-energy polarized-beam facility, The FNAL-E581/704 Collaboration, D.P. Grosnick, D.A. Hill, M.R. Laghai, D. Lopiano, Y. Ohashi, T. Shima, H. Spinka, R.W. Stanek, D.G. Underwood, A. Yokosawa, F. Lehar, A. De Lesquen, L. Van Rossum, D.C. Carey, R.N. Coleman, J.D. Cossairt, A.L.Read, R. Schaily, A.A. Derevschikov, Yu.A. Matulenko, A.P. Meschanin, S.B. Nurushev, R.A. Rzaev, V.L. Solovyanov, A.N. Vasiliev, N. Akchurin, Y. Onel, K. Imai, S. Makino, A. Masaike, K. Miyake, T. Nagamine, N. Tamura, T. Yoshida, R. Takashima, F. Takeutchi, T. Maki, K. Kuroda, A. Michalowicz, G. Shapiro, N. Tanaka, G. Salvato, A. Villari, M. Gazzaly, F.C. Luehring, D.H. Miller, M.D. Corcoran, F. Nessi-Tedaldi, M. Nessi, C. Nguyen, G.C. Phillips, J.B. Roberts, J.L. White, G. Pauletta, R. Birsa, F. Bradamante, S. Dalla Torre-Colautti, M. Georgi, A. Martin, A. Penzo, P. Schiavon and A. Zanetti A290 (1990) 269
A status report of the ISOL facility in Lanzhou, Huang Yecheng, Wang Tongqing, Tan Jinfeng, Guo Bin and Fan Hongmei A290 (1990) 293
A high-luminosity $\bar{B}B$ factory linear collider using positron recirculation and recovery, Cline, D. and C. Pellegrini A290 (1990) 297
Influence of electro discharge machining on the mosaicity of a beryllium single crystal, Brocker, C., J. Baruchel, C. Pratt and A. Magerl A290 (1990) 303
Emittance and brightness measurements in a proton electron cyclotron resonance ion source, Law, W.M., C.D.P. Levy and P.W. Schmor A290 (1990) 308
A liquid-^{4}He target with a small refrigerator, Kato, S., T. Kitami, K. Maruyama, Y. Murata, S. Endo, K. Niki and T. Morita A290 (1990) 315

Instruments and Methods for High Energy Physics

Decay time of light emission from cerium-doped scintillating glass, Angelini, C., W. Beusch, D.J. Crennell, M. De Vincenzi, A. Duane, J.P. Fabre, V. Flaminio, A. Frenkel, T. Gys, K. Harrison, E. Lamanna, H. Leutz, G. Martellotti, J.G. McEwen, D.R.O. Morrison, G. Penso, S. Petrera, M. Primout, C. Roda, A. Sciubba, E. Vicari and D.M. Websdale A281 (1989) 50
The Mark II detector for the SLC, Abrams, G., C.E. Adolphsen, C. Akerlof, J.P. Alexander, M. Alvarez, D. Averill, A.R. Baden, J. Ballam, B.C. Barish, T. Barklow, B.A. Barnett, J. Bartelt, D. Blockus, W. De Boer, G. Bonvicini, C. Boswell, A. Boyarski, J. Boyer, B. Brabson, K.Braune, A. Breakstone, J.M. Brom, F. Bulos, P.R. Burchat, D.L. Burke, F. Butler, F. Calvino, R.J. Cence, J. Chapman, M. Chmeissani, D. Cords, D.P. Coupal, P. Dauncey, H.C. Destaebler, D.E. Dorfan, J.M. Dorfan, P.S. Drell, D.C. Drewer, J. Fay, G.J. Feldman, D. Fernandes, E. Fernandez, R.C. Field, W.T. Ford, C. Fordham, R. Frey, D. Fujino, K.K. Gan, C. Gatto, E. Gero, G. Gidal, T. Glanzman, G. Goldhaber, J.J. Gomez Cadenas, X. Gong, G. Gratta, A. Green, P. Grosse-Wiesmann, J. Haggerty, G. Hanson, R. Harr, B. Harral, F.A. Harris, C.M. Hawkes, K. Hayes, C. Hearty, D. Herrup, C.A. Heusch, T. Himel, D.A. Hinshaw, M. Hoenk, S.-O. Holmgren, S.J. Hong, D. Hutchinson, J. Hylen, W.R. Innes, R.G. Jacobsen, M. Jaffre, J.A. Jaros, C.K. Jung, I. Juricic, J.A. Kadyk, D. Karlen, J. Kent, M. King, S.R. Klein, L. Koepke, D. Koetke, A. Koide, S. Komamiya, W. Koska, L.A. Kowalski, W. Kozanecki, J.F. Kral, M. Kuhlen, L. Labarga, A.J. Lankford, R.R. Larsen, M.E. Levi, Z. Li, A.M. Litke, V. Lüth, G.R. Lynch, J.A. McKenna, J.A.J. Matthews, T. Mattison, B.D. Milliken, K.C. Moffeit, L. Müller, C.T. Munger, W.N. Murray, J. Nash, M.E. Nelson, D. Nitz, H. Ogren, R.A. Ong, K.F. O'Shaughnessy, S.I. Parker, C. Peck, J. Perl, M.L. Perl, F. Perrier, A. Petersen, M. Petradza, R. Pitthan, F.C. Porter, P. Rankin, J.D. Richman, K. Riles, F.R. Rouse, D.R. Rust, H.F.W. Sadrozinski, M.W. Schaad, W.B. Schmidke, B.A. Schumm, A.S. Schwarz, A. Seiden, J.G. Smith, A. Snyder, E. Soderstrom, D.P. Stoker, R. Stroynowski, M. Swartz, R.E. Taylor, R. Thun, G.H. Trilling, R. Tschirhart, M. Turala, R. Van Kooten, S. Vejcik, H. Veltman, P. Voruganti, S.R. Wagner, S. Watson, P. Weber, A. Weigend, A.J. Weinstein, A.J. Weir, S. Weisz, S.L. White, E. Wicklund, R.C. Wolf, D.R. Wood, M. Woods, G. Wormser, R. Wright, D.Y. Wu, M. Yurko, C. Zaccardelli and C. Von Zanthier A281 (1989) 55
A high resolution holographic freon bubble chamber for the Fermilab high energy neutrino experiment, Kitagaki, T., K. Abe, T. Akagi, Y. Chiba, K. Furuno, M. Gunji, H. Hanada, K. Hasegawa, H. Hayano, T. Hayashino, H. Kaga, J. Katayama, H. Kurino, H. Masuda, Y. Morita, S. Nakai, T. Nakajima, K. Numano, H. Sagawa, M. Sasaki, H. Suzuki, T. Takayama, T. Tamae, K. Tamai, S. Tanaka, A. Yamaguchi, T. Yamamura, H. Yuta, M. Higuchi, Y. Hishi and M. Sato A281 (1989) 81

Reproducing spatial fluctuations of electromagnetic showers, De Angelis, A. and P.A. Palazzi A281 (1989) 93
Coupling of a $KMgF_3$ scintillator to a wire chamber filled with thriethylamine, Buzulutskov, A.F., L.K. Turchanovich and V.G. Vasil'chenko A281 (1989) 99
The MAC detector, Allaby, J.V., W.W. Ash, H.R. Band, L.A. Baksay, H.T. Blume, M. Bosman, T. Camporesi, G.B. Chadwick, S.H. Clearwater, R.W. Coombes, M.C. Delfino, R. De Sangro, W.L. Faissler, E. Fernández, W.T. Ford, M.W. Gettner, G.P. Goderre, Y. Goldschmidt-Clermont, B. Gottschalk, D.E. Groom, B.K. Heltsley, R.B. Hurst, J.R. Johnson, H.S. Kaye, K.H. Lau, T.L. Lavine, H.Y. Lee, R.E. Leedy, S.P. Leung, I. Lippi, E.C. Loh, H.L. Lynch, A. Marini, J.S. Marsh, T. Maruyama, R.L. Messner, O.A. Meyer, S.J. Michalowski, S. Morcos, J.H. Moromisato, R.M. Morse, L.J. Moss, F. Muller, H.N. Nelson, I. Peruzzi, M. Piccolo, R. Prepost, J. Pyrlik, N. Qi, A.L. Read Jr, K. Rich, D.M. Ritson, F. Ronga, L.J. Rosenberg, W.D. Shambroom, J.C. Sleeman, J.G. Smith, J.P. Venuti, P.G. Verdini, E. Von Goeler, H.B. Wald, R. Weinstein, D.E. Wiser and R.W. Zdarko A281 (1989) 291
A transition radiation detector for kaon/pion separation, Baake, M., B. Diekmann, F. Gebert, K. Heinloth, S. Holzkamp, G. Körsgen, A. Voigtlaender-Tetzner, L. Bagdassarian, C. Kazarian and A. Oganessian A281 (1989) 325
CAMAC-controlled 4-level discriminator with four settable threshold levels, Ujiie, N. and M. Ikeda A281 (1989) 335
Temperature behaviour of a BGO prototype for use on a 4π high energy spectrometer, Zucchiatti, A., C. Bernini, G. Gervino and A. Rottura A281 (1989) 341
Design of a capacitive displacement-measuring system for vertex detectors at colliding beam machines, Breakstone, A., W. Kucewicz, N. Redaelli and R. Turchetta A281 (1989) 453
The VENUS inner drift chamber for a fast *z*-trigger, Hemmi, Y., R. Kikuchi, K. Kubo, H. Kurashige, K. Miyake, M.M. Morii, F. Muranushi, T. Nakamura, A. Okamoto, N. Sasao, N. Tamura, Y. Yamada, M. Daigo and Y. Watase A281 (1989) 462
Calibration of electromagnetic calorimeters in high energy experiments with a radio frequency quadrupole accelerator, Ma, H., H. Newman, R.Y. Zhu and R. Hamm A281 (1989) 469
On the application of a priori cascade information when reconstructing hadron parameters in a calorimeter, Zhigunov, V.P., T.K. Koroleva and A.A. Spiridonov A281 (1989) 480
Three-dimensional survey techniques for large detector systems, Huth, J. and C.D. Moore A281 (1989) 485
The inverse power law model for the lifetime of a Mylar–polyurethane laminated dc hv insulating structure, Kalkanis, G. and E. Rosso A281 (1989) 489
Radiation damage tests of a PMP scintillator, Majewski, S., M. Bowen, J. Szaban and C. Zorn A281 (1989) 497
Radiation damage studies in plastic scintillators with a 2.5-MeV electron beam, Majewski, S., M. Bowen, C. Zorn, K. Johnson, V. Hagopian, J. Thomaston and H. Wahl A281 (1989) 500
Radiation damage of bipolar SST due to fast neutrons, Ikeda, H. and N. Ujiie A281 (1989) 508
A simple method to measure wire tensions in multiwire chambers (*Letter to the Editor*), Mueller, E.R. A281 (1989) 652
Meso-optical Fourier transform microscope – A new device for high energy physics, Astakhov, A.Ya., Yu.A. Batusov, Gy.L. Bencze, I. Farago, A. Kisváradi, L. Molnar, L.M. Soroko and J. Vegh A283 (1989) 13
A system for viewing holograms, Naon, R., H. Bjelkhagen, R. Burnstein and L. Voyvodic A283 (1989) 24
Tests of the DELPHI barrel RICH electrical HV insulator, Kalkanis, G., J. Drees, W. Klempt and E. Rosso .. A283 (1989) 37
Positron annihilation study of the radiation effect on doped BGO, Chen, L.Y., K.H. Xiang, Z.Y. Wei, Z.F. He and Z.W. Yin A283 (1989) 43
Scintillating plastic fibres for hadron calorimetry (*Letter to the Editor*), Hartjes, F.G. and R. Wigmans A283 (1989) 109

Proceedings of the Fifth International Wire Chamber Conference (Vienna, Austria, February 13–17, 1989)

Section I. Plenary talks

Will gaseous detectors become routine tools in biology and medicine?, Charpak, G. A283 (1989) 371
Liquid noble gas and warm liquid detectors, Feltesse, J. A283 (1989) 375
Recent developments in semiconductor detectors and on-chip electronics, Strüder, L. A283 (1989) 387
Software for FASTBUS, Rimmer, E.M. A283 (1989) 399
Properties of wire chamber gases, Zarubin, A.V. A283 (1989) 409

Section II. Applications in medicine, biology, low-energy and X-ray physics

Bone densitometry with a high-speed, high-resolution MWPC, Angelini, F., R. Bellazzini, A. Brez, M.M. Massai and M.R. Torquati A283 (1989) 423
Multiwire proportional chamber for a digital radiographic installation, Baru, S.E., A.G. Khabakhpashev and L.I. Shekhtman A283 (1989) 431
Development studies for a high-rate positron camera based on a BaF_2/TMAE system, Bateman, J.E., J.F. Connolly, R. Stephenson, P.K. Marsden, R.J. Ott and J. Suckling A283 (1989) 436
A high-resolution multiwire area detector for X-ray scattering, Faruqi, A.R. and H. Andrews A283 (1989) 445

Recent developments for a BaF_2/TMAE PET-camera, Hollander, R.W., P. Schotanus and C.W.E. Van Eijk .. A283 (1989) 448
A high-pressure drift chamber for photonuclear experiments, Huthmacher, S., J. Arends, G. Nöldeke and W. Prüfert A283 (1989) 454
Utilizing a position-sensitive wire chamber in sheet density measurements, Laakso, M., J. Koponen and R. Ritala A283 (1989) 459
Recent progress in developments and applications of imaging detectors at LHE, JINR, Zanevsky, Yu.V., C.D. Tkhan, G.A. Cheremukhina, S.P. Chernenko, A.B. Ivanov, S.A. Movchan, T. Netusil, V.D. Peshekhonov, L.P. Smykov and S.E. Vasilev A283 (1989) 462

Section III. Cylindrical chambers

Performance of prototypes of the H1 outer *z*-drift chamber, Bärwolff, H., U. Gensch, U. Harder, H. Henschel, H. Kaufmann, M. Klein, P. Kostka, H. Lippold, J. Meissner, T. Naumann and M. Winde A283 (1989) 467
Radial wire drift chambers for the H1 forward track detector at HERA: design, construction and performance, Beck, G.A., J.B. Dainton, E. Gabathuler, P. Mason, M.T. Matthews, S.J. Maxfield, J.M. Morton, G.D. Patel and D.P.C. Sankey A283 (1989) 471
Development of the ZEUS central tracking detector, ZEUS-UK Collaboration: C.B. Brooks, F.W. Bullock, R.J. Cashmore, R.C. Devenish, B. Foster, T.J. Fraser, M.D. Gibson, R.S. Gilmore, D. Gingrich, N. Harnew, J.C. Hart, G.P. Heath, J. Hiddleston, A.R. Holmes, A.K. Jamdagni, T.W. Jones, T.J. Llewellyn, K.R. Long, G.J. Lush, J. Malos, N.C. Martin, I. McArthur, N.A. McCubbin, D. McQuillan, D.B. Miller, M.M. Mobayyen, C. Morgado, J. Nash, G. Nixon, A.G. Parham, B.T. Payne, J.H.C. Roberts, G. Salmon, D.H. Saxon, A.J. Sephton, D. Shaw, T.B. Shaw, P.D. Shield, J. Shulman, I. Silvester, S. Smith, D.E. Strachan, R.J. Tapper, S.M. Tkaczyk, L.W. Toudup, E.W. Wallis, R. Wastie, J. Wells, D.J. White, F.F. Wilson and K.L. Yeo A283 (1989) 477
Characteristics of the CPLEAR drift chambers, Dejardin, M., J. Derre, J.L. Faure, C. Guyot and G. Marel ... A283 (1989) 484
The central-inner *z*-drift chamber of the H1 experiment, Egli, S., C.A. Meyer, P. Robmann, U. Straumann, P. Truöl, R. Eichler and R. Holzreuter A283 (1989) 487
The OPAL jet chamber, Fischer, H.M., H. Hartmann, M. Hauschild, A. Rollnik, S. Schreiber, B. Wünsch, H. Breuker, R.-D. Heuer, J. Ludwig, W. Mohr, F. Röhner, K. Runge, D. Schaile, O. Schaile, H.E. Stier, Ch. Wahl, P. Bock, A. Dieckmann, J.W. Gary, J. Heintze, P. Igo-Kemenes, P. Lennert, H. Von der Schmitt and A. Wagner A283 (1989) 492

Section IV. Drift tubes

The DELPHI outer detector, Amery, A., M. Baubillier, S.F. Biagi, P.S.L. Booth, M. Boratov, L. Brault, J.E. Campagne, L.J. Carroll, L. Cerrito, V. Chorowicz, C. De la Vassiere, L.S. Curwen, D.N. Edwards, S.C. Gawne, C. Geara, J.F. Genat, R. Gokieli, B. Grossetete, M.A.Houlden, J.N. Jackson, B.T. King, S. Palma Lopes, R. Pain, W.H. Range, D.W. Reid, F. Rossel, J. Thornhill, P.R. Turner, L. Wilkinson and R. Zitoun . A283 (1989) 502
Recent developments of the multidrift tube, Bouclier, R., J. Gaudaen, I. Gouz, B. Guerard, J.C. Santiard, F. Sauli and R. Wojcik A283 (1989) 509
An array of proportional tubes for the location of electromagnetic showers in the OPAL forward detectors, Imrie, D.C., S.J. Hall, D.J. Miller, P. Sherwood and N.C. Wood A283 (1989) 515

Section V. Vertex detectors

The MARK-II vertex drift chamber, Alexander, J.P., R. Baggs, D. Fujino, K. Hayes, C. Hoard, N. Hower, D. Hutchinson, J.A. Jaros, D. Koetke, L.A. Kowalski, C.T. Munger, T. Ohama, M.L. Perl, R. Wright, P.S. Drell, R. Fuzesy, R. Harr, J.F. Kral, J.D. Richman, B.A. Schumm, G.H. Trilling, W.T. Ford, D.A. Hinshaw, J.G. Smith, S.R. Wagner and P. Weber A283 (1989) 519
Vertex chamber for the KEDR detector, Aulchenko, V.M., A.G. Chilingarov, G.M. Kolachev, O.B. Lazarenko, V.P. Nagaslaev and L.V. Romanov A283 (1989) 528
Performance of the UA2 jet vertex detector at the CERN Collider, Bosi, F., G. Carboni, V. Cavasinni, F. Costantini, T. Del Prete, E. Iacopini, S. Lami, P. Lariccia, M. Morganti, C. Petridou, D. Rizzi, A. Sassu and M. Valdata-Nappi A283 (1989) 532
Test installation of a 2.3 cm radius beam pipe and vertex drift chamber in CLEO at CESR, Katayama, N., E. Cheu, R. DeSalvo, P.S. Drell, S.W. Gray, N.B. Mistry, A. Jawahery and J.D. Willins A283 (1989) 539
The ARGUS microvertex drift chamber, Michel, E., W. Schmidt-Parzefall, R.D. Appuhn, J. Buchmüller, H. Kolanoski, B. Kreimeier, A. Lange, T. Siegmund, A. Walther, K.W. Edwards, R.C. Fernholz, H. Kapitza, D.B. MacFarlane, M. O'Neill, J.A. Parsons, J.D. Prentice, S.C. Seidel, G. Tsipolitis, S. Ball, A. Babaev, M. Danilov and I. Tichomirov A283 (1989) 544

Section VI. Time projection chambers

A TPC in the context of heavy-ion collisions, Garabatos, C., representing the NA36 Collaboration: P. Álvarez de Lara, E. Andersen, P.D. Barnes, R. Blaes, H. Braun, J.M. Brom, B. Castaño, M. Cherney, M. Cohler, B.

De la Cruz, G.E. Diebold, C. Fernández, G. Franklin, C. Garabatos, J.A.Garzón, W.M. Geist, D.E. Greiner, C.R. Gruhn, M. Hafidouni, M. Heiden, C.P. De los Heros, J. Hubrec, D. Huss, J.L. Jacquot, P.G. Jones, J.P.M. Kuipers, P. Ladrón de Guevara, D. Liko, G. Lovhoiden, J. MacNaughton, A. Michalon, M.E. Michalon-Mentzer, J. Mosquera, Z. Natkaniec, J.M. Nelson, G. Neuhofer, M. Pló, P. Port, B. Powell, B. Quinn, A. Ramil, J.L. Riester, H. Rohringer, G. Sakrejda, I. Sakrejda, R. Schumacher, T. Thorsteinsen, J. Traxler, C. Voltolini, Y. Xia, A. Yañez, P. Yepes and R. Zybert A283 (1989) 553

Modular TPCs for relativistic heavy-ion experiments, Etkin, A., S.E. Eiseman, K.J. Foley, R.W. Hackenburg, R.S. Longacre, W.A. Love, T.W. Morris, E.D. Platner, A.C. Saulys, S.J. Lindenbaum, C.S. Chan, M.A. Kramer, T.J. Hallman, L. Madansky, B.E. Bonner, J.A. Buchanan, C.N. Chiou, J.M. Clement,M.D. Corcoran, N. Krishna, J.W. Kruk, H.E. Miettinen, G.S. Mutchler, F. Nessi-Tedaldi, M. Nessi, G.C. Phillips and J.B. Roberts A283 (1989) 557

The DELPHI time projection chamber, Brand, C., S. Cairanti, P. Charpentier, D. Delikaris, P. Delpierre, H. Foeth, B.W. Heck, H.J. Hilke, A. Sancho, J. Wildman, C. Aubret, P. Billoir, C. Boutonnet, P. Courty, M. Crozon, A. Diaczek, J. Mas, L. Mathis, G. Saget, A. Tilquin, J.P. Turlot, P. Vergezac, P. Antilogus, J.E. Augustin, M. Gaillard, M.H. Gros, A. Hrisoho, B. Jean-Marie, V. Lepeltier, J.M. Noppe, F. Richard, K. Truong, T. Bolognese, P. Borgeaud, M. Debeer, G. Goujon, M. Gros, P. Jarry, M. Mur, J.C. Raoul, V. Ruhlmann, Y. Sacquin, P. Siegrist, G. Smadja, M. Turluer, D. Vilanova, G. Darbo, O. Bärring, G. Jarlskog, S. Käck, B. Lorstadt and U. Mjörnmark A283 (1989) 567

The spatial resolution of the ALEPH TPC, Amendolia, S.R., T. Barczewski, L.A.T. Bauerdick, E. Blucher, W. Blum, J. Boudreau, D. Cinabro, M.A. Ciocci, J. Conway, D.F. Cowen, F. Fidecaro, B. Gobbo, A. Halley, S. Haywood, A. Jahn, R. Johnson, M. Kasemann, U. Larsson, B. Leclaire, I. Lehraus, T. Lohse, A. Lusiani, P.S. Marrocchesi, J. May, E. Milotti, A. Minten, J. Richstein, R. Richter, S. Roehn, L. Rolandi, D. Schlatter, M. Schmelling, R. Settles, G. Stefanini, F. Steeg, M. Takashima, W. Tejessy, J. Thomas, A. Vayaki, J. Wear, W. Witzeling, S.L. Wu and S. Xue A283 (1989) 573

TPC tracking inside a Cherenkov detector, Nemethy, P., J. Kotcher, D. Nesic, T. Edberg, P. Oddone, L. Baksay, R. Magahiz, Z. Egyed and R. Kofler A283 (1989) 578

Section VII. Cherenkov ring-imaging detectors

Development and construction of the SLD Cherenkov ring-imaging detector, Aston, D., A. Bean, T. Bienz, F. Bird, D. Caldwell, M. Cavalli-Sforza, P. Coyle, D. Coyne, S. Dasu, W. Dunwoodie, G. Hallewell, K. Hasegawa, J. Huber, P. Jacques, R.A. Johnson, H. Kawahara, P. Korff, Y. Kwon, D. Leith, A. Lu, J. Martinez, L.Mathys, S. McHugh, B. Meadows, M. Nussbaum, R. Morrison, R. Plano, B. Ratcliff, P. Rensing, D. Schultz, S. Shapiro, A. Shoup, C. Simopoulos, E. Solodov, P. Stamer, I. Stockdale, N. Toge, J. Va'vra, D.A. Williams, S. Williams, M. Witherell, R.J. Wilson, J. Whitaker, S. Yellin and H. Yuta A283 (1989) 582

Development of the CRID single-electron wire detector, Aston, D., A. Bean, T. Bienz, F. Bird, D. Caldwell, M. Cavalli-Sforza, P. Coyle, D. Coyne, S. Dasu, W. Dunwoodie, G. Hallewell, K. Hasegawa, J. Huber, P. Jacques, R.A. Johnson, H. Kawahara, Y. Kwon, D. Leith, A. Lu, J. Martinez, L. Mathys, S.McHugh, B. Meadows, M. Nussbaum, R. Morrison, R. Plano, B. Ratcliff, P. Rensing, D. Schultz, S. Shapiro, A. Shoup, C. Simopoulos, M. Sokoloff, E. Solodov, P. Stamer, I. Stockdale, N. Toge, J. Va'vra, D.A. Williams, S. Williams, M. Witherell, R.J. Wilson, J. Whitaker, S. Yellin and H. Yuta A283 (1989) 590

A gamma ring-imaging telescope for high-energy photon detection, Charpak, G., W. Dominik, Y. Giomataris, A. Gougas and F. Sauli A283 (1989) 596

Fast RICH detector using a MWPC at atmospheric pressure with a pad structure readout by VLSI circuits, Chesi, E., P. Martinengo, F. Piuz and T.D. Williams A283 (1989) 602

RICH counter using a solid radiator and a low pressure MWPC, Francke, T. and M. Suffert A283 (1989) 608

Section VIII. Spectrometers, particle identification, calorimetry

Beam identifier, Avundjian, A.T., S.A. Kankanian, A.G. Oganessian and L.M. Petrossian A283 (1989) 612

The AMPIR spectrometer drift chamber for studying pion–nucleus reactions, Berlev, A.I., V.A. Krasnov, V.I. Kovinsky, O.O. Patarakin, M.A. Prokhvatilov, A.F. Sustavov and A.V. Shul'ginov A283 (1989) 614

Particle identification using dE/dx in the MARK II detector at the SLC, Boyarski, A., D.P. Coupal, G.J. Feldman, G. Hanson, J. Nash, K.F. O'Shaughnessy, P. Rankin and R. Van Kooten A283 (1989) 617

Simultaneous track reconstruction and electron identification in the H1 radial drift chambers, Grässler, H., S. Masson, H. Nierobisch, W. Pilgram, S. Schulte, W. Struczinski, H. Wenzel, G.A. Beck, J.B. Dainton, E. Gabathuler, P. Mason, S.J. Maxfield, J.M. Morton, G.D. Patel and D.P.C. Sankey A283 (1989) 622

Particle identification by low-efficiency "thin" chambers, Gurzhiev, A.N., V.I. Kryshkin and L.L. Kurchaninov A283 (1989) 628

Results from a full-scale UA1 uranium–TMP calorimeter module, Krammer, M. A283 (1989) 630

A lead-glass drift calorimeter with high granularity, Bollini, D., F.R. Cavallo, P. Giusti, F.-L. Navarria, T. Rovelli, A. Del Guerra, A. Bandettini, M. Conti, P. Lauriola, P. Maiano, C. Rizzo and D. Rizzi A283 (1989) 635

The Soudan-2 proton decay experiment, Thron, J.L. A283 (1989) 642

Section IX. Diverse chambers

Performance of the UA2 scintillating-fibre detector, Alitti, J., R.E. Ansorge, P. Bareyre, G. Blaylock, P. Bonamy, C.N. Booth, J. Crittenden, R.S. DeWolf, J. Dupont, K. Einsweiler, C. Engster, J.-M. Gaillard, K. Hultqvist, M. Lefebvre, L. Linssen, J.-P. Meyer, D.J. Munday, J.M. Pentney, J.G. Rushbrooke, A. Stirling, A.R. Weidberg, P.S. Wells, D.R. Wood, S.A Wotton, T.O. White and H. Zaccone A283 (1989) 646
Compact drift-chambers for the OPAL forward detectors, Anderson, B.E., D.J. Attree, A. Charalambous, R. Cranfield, M. Cresswell, G. Crone, G.M. Dallavalle, M. Dryburgh, B.W. Kennedy, D. Hayes, L. Marradi, D.J. Miller, P. Sherwood, E. Spreadbury, N.C. Wood and K.K. Young A283 (1989) 650
Performance of resistive plate counters at beam flux up to 140 Hz/cm^2, Bertino, M., R. Cardarelli, M. Iori, F. Massa, R. Santonico, P. Bernardini, E. Gorini, F. Grancagnolo, O. Palamara, C. Pinto, G. Bressi, G. Introzzi, A. Lanza and G. Liguori A283 (1989) 654
Beam test of an imaging high-density projection chamber, Fonte, P., A. Breskin, G. Charpak, W. Dominik and F. Sauli A283 (1989) 658
An X-ray detector as a detector for electron identification, Fujii, Y., K. Abe, S. Eno, D.H. Han, H. Harada, Y. Higashi, Y. Ishi, T. Ishizuka, H. Miyata, K. Ohta, D.R. Perticone, R. Poling, N.M. Shaw, H. Takei, T. Thomas, E.H. Thorndike and H. Yokota A283 (1989) 665
A linear drift chamber readout of a gated multistep avalanche chamber, Solomey, N., R. Bouclier, G. Charpak, I. Gouz, D.C. Lamb and F. Sauli A283 (1989) 673

Section X. Gas, aging

Study of straw chamber lifetime with argon ethane, Adler, J., T. Bolton, K. Bunnell, E. Cheu, C. Grab, G. Mazaheri, A. Odian, D. Pitman, W. Stockhausen, W. Toki, W. Wadley, C. Wood and R. Mir A283 (1989) 679
Mini drift chambers: operation with various gas mixtures, Erin, S.V., A.A. Derevshchikov, A.A. Morosov, V.K. Myalitsin and V.I. Shelihov A283 (1989) 682
Long electron drift in TMAE-doped gas in the Barrel RICH detector, Hahn, F., S. Haider, W. Klempt, D. Langerveld and E. Rosso A283 (1989) 686
The aging of wire chambers filled with dimethyl ether: wire and construction materials and freon impurities, Jibaly, M., S. Majewski, P. Chrusch Jr., R. Wojcik, F. Sauli and J. Gaudaen A283 (1989) 692
A comparison of argon and xenon gas mixtures in a small drift chamber, Johannsen, K., E. Schenuit, H. Spitzer, R. Vick and G. Westerkamp A283 (1989) 702
Photosensitive mixtures in the SQS mode, Ribeiro, R.S., E.P. De Lima, R. Ferreira Marques, M.A.F. Alves and A.J.P.L. Policarpo A283 (1989) 705
Measurements of the electron drift velocity and positive-ion mobility for gases containing CF_4, Yamashita, T., H. Kobayashi, A. Konaka, H. Kurashige, K. Miyake, M.M. Morii, T.T. Nakamura, T. Nomura, N. Sasao, Y. Fukushima, M. Nomachi, O. Sasaki, F. Suekane and T. Taniguchi A283 (1989) 709

Section XI. Simulations

A multiterm Boltzmann analysis of drift velocity, diffusion, gain and magnetic-field effects in argon–methane–water-vapour mixtures, Biagi, S.F. A283 (1989) 716
Wire- and cathode pulses in a counter of square cross section with a thin wire as central conductor operating in limited streamer mode, Carli, Ch., Ch. Erd, G. Leder, M. Pernicka, M. Regler and B. Schnizer A283 (1989) 723
Computer simulation of the electron avalanche in cylindrically symmetric electric fields, Groh, J., E. Schenuit and H. Spitzer A283 (1989) 730
Wire chamber requirements and tracking simulation studies for tracking systems at the Superconducting Super Collider, Hanson, G.G., B.B. Niczyporuk and A.P.T. Palounek A283 (1989) 735
Analytical approach to the development of charge signals in multiwire proportional chambers, Starič, M. A283 (1989) 744

Section XII. Techniques and methods

A coordinate system of the CMD-2 detector, Anashkin, E.V., V.M. Aulchenko, S.E. Baru, V.E. Fedorenko, G.V. Fedotovich, B.I. Khazin, G.A. Savinov, I.G. Snopkov, E.P. Solodov, V.G. Zavarzin and Yu.V. Yudin A283 (1989) 752
A microstrip gas avalanche chamber with two-dimensional readout, Angelini, F., R. Bellazzini, A. Brez, M.M. Massai, G. Spandre and M.R. Torquati A283 (1989) 755
Test results with a novel high-resolution wire chamber with interpolative pad readout, Angelis, A.L.S., H. Beker, J.C. Berset, G. Di Tore, C.W. Fabjan, U. Goerlach, C. Leroy, M. Price, V. Radeka, B. Sellden, V. Tcherniatine and W.J. Willis A283 (1989) 762
Gating the MWPCs of the DELPHI Barrel RICH, Van Apeldoorn, G., D. Langerveld, D.Z. Toet, D. Bloch, M. Dracos, W. Dulinski, D. Husson, P. Juillot, D. Loukas, M. Schaeffer, E. Aria, J.D. Berst, E. Christophel, J.P. Froberger and N. Mayet A283 (1989) 767
A MWPC with highly segmented cathode pad readout, Debbe, R., J. Fischer, D. Lissauer, T. Ludlam, D. Makowiecki, V. Radeka, S. Rescia, G.C. Smith, D. Stephani and B. Yu A283 (1989) 772

Time and positioning characteristics of the SQS mode, De Fraga, F.A.F., R. Ferreira Marques and A.J.P.L. Policarpo A283 (1989) 778
The technique of *z*-coordinate determination using a time-difference measurement for the ZEUS central tracking detector, Harnew, N., J. Nash, G.L. Salmon, P.D. Shield, M.D. Jeffs, A.G. Parham and D.J. White A283 (1989) 781
Organometallic photocathodes for parallel-plate and wire chambers, Peskov, V., G. Charpak, F. Sauli, D. Scigocki, V. Diep and D. Janjic A283 (1989) 786
Performance of the delay lines of the DELPHI forward muon chambers, Stichelbaut, F., C. Bricman, J. Buytaert, C. De Clercq, L. Etienne, B. Goorens, J. Lemonne, S. Tavernier, C. Van der Velde, W. Van Doninck, L. Van Lancker, J. Wickens, E. Daubie, F. Defontaines, J. Kesteman, O. Pingot and C. Poiret ... A283 (1989) 792

Section XIII. Electronics

High-speed readout for a time projection chamber in the NA36 data acquisition system, Cherney, M., representing the NA36 Collaboration: P. Álvarez de Lara, E. Andersen, P.D. Barnes, R. Blaes, H. Braun, J.M. Brom, B. Castaño, M. Cherney, M. Cohler, B. De la Cruz, G.E. Diebold, C. Fernández, G. Franklin, C. Garabatos, J.A. Garzón, W.M. Geist, D.E. Greiner, C.R. Gruhn, M. Hafidouni, M. Heiden, C.P. De los Heros, J. Hubrec, D. Huss, J.L. Jacquot, P.G. Jones, J.P.M. Kuipers, P. Ladrón de Guevara, D. Liko, G. Lovhoiden, J. MacNaughton, A. Michalon, M.E. Michalon-Mentzer, J. Mosquera, Z. Natkaniec, J.M. Nelson, G. Neuhofer, M. Pló, P. Porth, B. Powell, B. Quinn, A. Ramil, J.L. Riester, H. Rohringer, G. Sakrejda, I. Sakrejda, R. Schumacher, T. Thorsteinsen, J. Traxler, C. Voltolini, Y. Xia, A. Yanēz, P. Yepes and R. Zybert A283 (1989) 796
The L3 energy trigger, Bizzarri, R., F. Cesaroni, S. Gentile, G. Lunadei, M. Fukushima, G. Herten and T. Hebbeker A283 (1989) 799
A hardware readout system for a curved one-dimensional position-sensitive proportional counter, Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander, R. Kreuger and G.W. Sloof A283 (1989) 803
High-speed bipolar integrated circuits for SSC applications, Newcomer, F.M., R. Van Berg, J. Van der Spiegel and H.H. Williams A283 (1989) 806
Development of radiation-hard front-end electronics at UC Santa Cruz, Sadrozinski, H.F.-W. A283 (1989) 810

Section XIV. Software

Fast on-line pattern recognition in a microprocessor farm, Bock, P. and G. Tysarczyk A283 (1989) 813

Performance of a silicon microstrip detector with a new type of preamplifier for nuclear experiments, Tanaka, M., I. Arai, A. Manabe, M. Ninomiya, H. Nunokawa, K. Tomizawa, K. Yagi, J. Chiba, T. Kobayashi, T. Nagae, H. Sano and K. Tokushuku A284 (1989) 296
A method to use CCDs as tracking devices with reduced dead time at room temperature, Alcaraz, J., I. Durán, A. Molinero and P. Olmos A284 (1989) 303
HOLRED – a machine for the replay of holograms made in a large bubble chamber, Aderholz, M., P.P. Allport, J.-P. Baton, M. Bourdinaud, G. Corrigan, H. Drevermann, K.K. Geissler, J.V. Gibb, L. Gosset, G. Gros, G. Harigel, R. Krawiec, J. Lloyd, D.B. Miller, J. Moreels, D.R.O. Morrison, P.R. Nailor, M. Neveu, J. Quidort, P. Sawallisch, R.L. Sekulin, S. Sewell, G. Smith, K. Varvell, L. Verluyten, L. Walton and M. Waters A284 (1989) 311
Fast Monte Carlo simulation of segmented U/Cu/Scint calorimeters: A comparison with test beam data, Fatyga, M., D. Makowiecki and W.J. Llope A284 (1989) 323
A nonflammable gas mixture for plastic limited streamer tubes, Benvenuti, A.C., L. Piemontese, A. Calcaterra, R. De Sangro, P. De Simone, I. Peruzzi, M. Piccolo, W. Busza, S.L. Cartwright, J.I. Friedman, S. Fuess, S. Gonzalez, T. Hansl-Kozanecka, H.W. Kendall, T. Lyons, L.S. Osborne, L. Rosenson, U. Schneekloth, F.E. Taylor, R. Verdier, D. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, M. Loreti, L. Pescara, J. Wyss, B. Alpat, R. Battiston, G.M. Bilei, R. Dell'Orso, G. Mantovani, M. Pauluzzi, M. Scarlatella, L. Servoli, M. Carpinelli, R. Castaldi, C. Vannini, P.G. Verdini, R.L. Messner, R.W. Zdarko and J.R. Johnson A284 (1989) 339
A detailed study of the performance of the uranium–gas sampling calorimeter, L3 Collaboration, A. Arefiev, T. Azemoon, R. Bal, S. Burov, M. Capell, H.S. Chen, M. Chen, M. Chumakov, Yu. Galaktionov, S. Goldfarb, Z.F. Gong, A. Gordeev, Yu. Gorodkov, L.W. Jones, Yu. Kamyshkov, A. Klimentov, V. Koutsenko, A. Kunin, P. Lecomte, P. LeCoultre, J. Lettry, Z.R. Lin, Y.S. Lu, A. Malinin, G.B. Mills, V. Morgunov, V. Plyaskin, V. Pojidaev, B.P. Roe, A. Rozhkov, A. Savin, S. Shevchenko, V. Shevchenko, K. Shmakov, V. Shoutko, E. Shumilov, B. Spiess, E. Tarkovsky, V. Tchoudakov, S.C.C. Ting, K.L. Tung, J. Ulbricht and I. Vorobiev A285 (1989) 403
Low resistivity electrodeless streamer tubes, Ferrarotto, F. and B. Stella A285 (1989) 426
A lead/proportional-tube electromagnetic calorimeter for direct photon detection, The UA6 Collaboration, L. Camilleri, L. Dick, J.-B. Jeanneret, G. Von Dardel, S. Baumann, A. Bernasconi, B. Gabioud, F. Gaille, C. Joseph, J.-F. Loude, C. Morel, J.L. Pages, J.-P. Perroud, D. Ruegger, G. Sozzi, D. Steiner, L. Struder,

M.-T.Tran, E.C. Dukes, D. Hubbard, O.E. Overseth, C. Rivers, G.R. Snow, G. Valenti, R. Breedon, R.L. Cool, P.T. Cox, P. Cushman, P. Giacomelli, R.W. Rusack and A. Vacchi A286 (1989) 49
The combined response of the ALEPH electromagnetic and hadronic calorimeter to pions, Bagliesi, G., R. Baldini, G. Batignani, G. Bencivenni, G. Bologna, F. Bossi, U. Bottigli, C. Bradaschia, P. Campana, G. Capon, M.G. Catanesi, V. Chiarella, R. Clifft, F. Combley, G. De Ninno, M. De Palma, B. D'Ettorre-Piazzoli, M. Dinsdale, R.Edgecock, M. Edwards, A. Farilla, G. Felici, L. Foa', A. Giassi, M. Green, J. Hearns, G. Iaselli, T. Jones, P. Laurelli, F. Ligabue, J.G. Lynch, G. Maggi, G. Mannocchi, P. March, A. Mastrogiacomo, T. Medcalf, A. McKemey, A. Messineo, M.N. Minard, M. Morrissey, F. Murtas, G.P. Murtas, S. Natali, G. Nicoletti, P. Norton, S. Nuzzo, M. Pepe, P. Picchi, C. Raine, A. Ranieri, G. Raso, F. Romano, F. Ruggieri, D. Salmon, G. Sanguinetti, G. Selvaggi, L. Silvestris, K. Smith, P. Tempesta, R. Tenchini, R. Thomas, J. Thompson and G. Zito A286 (1989) 61
Scintillating fiber ribbon–tungsten calorimeter, Bross, A., M. Crisler, B. Kross and J. Wrbanek A286 (1989) 69
Calculated inclusive neutron production from 400 GeV proton–nucleus collisions, Alsmiller Jr, R.G., F.S. Alsmiller and O.W. Hermann A286 (1989) 73
The ASTERIX spectrometer at LEAR, ASTERIX Collaboration, S. Ahmad, C. Amsler, R. Armenteros, E.G. Auld, D.A. Axen, D. Bailey, S. Barlag, G.A. Beer, J.C. Bizot, M. Botlo, J. Butler, M. Caria, M. Comyn, W. Dahme, B. Delcourt, M. Doser, K.D. Duch, K.L. Erdman, F. Feld-Dahme, U. Gastaldi, M. Heel, B. Howard, R. Howard, J. Jeanjean, H. Kalinowsky, F. Kayser, E. Klempt, C. Laa, R. Landua, G.M. Marshall, B. May, H. Nguyen, N. Prevot, J. Riedlberger, L.P. Robertson, C. Sabev, U. Schaefer, O. Schreiber, U. Straumann, P. Truöl, H. Vonach, P. Weidenauer, B.L. White, R.W. Wodrich and M. Ziegler A286 (1989) 76
The OPAL vertex drift chamber, Carter, J.R., P.A. Elcombe, J.C. Hill, C.M. Roach, J.C. Armitage, R.K. Carnegie, P. Estabrooks, R. Hemingway, D. Karlen, A. McPherson, J. Pinfold, J.M. Roney, P. Routenburg, J. Waterhouse, C.K. Hargrove, D. Klem, F.G. Oakham, A.A. Carter, R.W.L. Jones, M.M.B. Lasota, S.L. Lloyd, T.W. Pritchard and T.R. Wyatt A286 (1989) 99
The electronics readout system for the OPAL vertex drift chamber, Carter, A.A., J.R. Carter, J.C. Hill, S.L. Lloyd, R.M. Matson, R.S. Milborrow, T.W. Pritchard, M.D. Jeffs and D.J. White A286 (1989) 107
Thin, high gain wire chambers for electromagnetic presampling in OPAL, Beard, C., R. Hammarström, D. Hatzifotiadou, C. Kleinwort, L. Köpke, N. Wermes, G.W. Wilson, W. Zeuner, E. Duchovni, D. Hochman, D. Lellouch, L. Levinson, G. Mikenberg and M. Shoa A286 (1989) 117
End-cap proportional tube chambers for the upgraded UA2 experiment, Borer, K., C. Conta, A. Dell'Acqua, B. DeLotto, A. Federspiel, R. Ferrari, M. Fraternali, G. Fumagalli, G. Goggi, B. Hahn, K. Hara, E. Hugentobler, M. Livan, R. Moning, L. Müller, F. Pastore, E. Pennacchio, A. Rimoldi, J. Schacher and V. Vercesi A286 (1989) 128
A study of the electron image due to ionizing events in a two-dimensional liquid argon TPC with a 24 cm drift cap, Bonetti, S., A. Braggiotti, E. Buckley, M. Campanella, G. Carugno, G. Cecchet, P. Cennini, S. Centro, A. Ciocio, S. Cittolin, B. Dainese, M. Ferro-Luzzi, F. Gasparini, A. Gonidec, P.F. Manfredi, E. Meroni, R. Muñoz, J-M. Perreau, F. Pietropaolo, F. Ptohos, F. Ragusa, P. Rossi, C. Rubbia, D. Schinzel, W.F. Schmidt and W. Seidl A286 (1989) 135
Saturation of ionization signals in TMP and TMS at different angles and electric fields, Aubert, B., J. Colas, L. Dobrzynski, Ph. Ghez, D. Kryn, J.C. Lacotte, B. Mansoulie, J.P. Mendiburu, M. Pripstein, P. Salin and J. Teiger A286 (1989) 147
Operation of limited streamer mode production-line chambers with non-flammable gases, Hungerford, D., K. Lau, J. Liu, G.-H. Mo, D. Parks, J. Pyrlik, D. Sanders, R. Weinstein, Shen Pei-Ruo and Yu Xia-Zhen A286 (1989) 155
Pumped liquid scintillator-filled halar fibres: an approach to radiation-resistant calorimeter readout (*Letter to the Editor*), Pinfold, J.L., J-G. Boutin and D. Dumas A286 (1989) 345
The response of an aluminum–scintillator calorimeter to electrons near the critical energy from 50 to 150 MeV and comparisons with the EGS4 program predictions, Auerbach, L., S. Clearwater, T. Dombeck, T.J. Bowles, H.S. Matis, W. Gorn, B. Dieterle, J. Kang, C. Leavitt and D. Koetke A287 (1990) 378
Test of prototypes for a highly-segmented TOF hodoscope, Kobayashi, T. and T. Sugitate A287 (1990) 389
Statistical and systematic errors in position estimates of hodoscope calorimeters, De Angelis, A. and F. Mazzone A287 (1990) 397
A Monte Carlo study of the resolution limits in a lead–streamer tube photon shower counter, Tang, L.G. and E.V. Hungerford A287 (1990) 407
Relation between the lateral distribution of UV laser induced ionization in a drift chamber and the shape of the corresponding signal, Fabbretti, R., M. Fabre, L. Li, P. Razis, P.G. Seiler and O. Prokofiev A287 (1990) 413
The missing transverse momentum trigger electronics of UA2, Moreira, P. and G. Polesello A287 (1990) 417
Vertex reconstruction without track reconstruction, Yatsunenko, Yu.A. A287 (1990) 422
The tree-search processor for real time track pattern recognition, Battaiotto, P., M. Budinich, M. Dell'Orso, S. Esquivel, P. Gianetti, D. Passuello, L. Ristori and G. Toccaceli A287 (1990) 431
A highly parallel algorithm for track finding, Dell'Orso, M. and L. Ristori A287 (1990) 436

Using dimethylether as a drift gas in a high precision drift tube detector, Zhou, B., A. Marin, T. Coan, J. Beatty and S. Ahlen A287 (1990) 439
Field dependent free ion yields of room temperature tetramethyl liquids and their mixtures, Geer, S., R.A. Holroyd and F. Ptohos A287 (1990) 447

Proceedings of the Fifth European Symposium on Semiconductor Detectors (Munich, FRG, 21–23 February 1989)

Section I. Detector technology

Silicon detector developments for calorimetry: technology and radiation damage, Fretwurst, E., H. Herdan, G. Lindström, U. Pein, M. Rollwagen, H. Schatz, P. Thomsen and R. Wunstorf A288 (1990) 1
Photomask technique for fabricating high purity germanium strip detectors, Gutknecht, D. A288 (1990) 13
Ion-implanted Si pn-junction detectors with ultrathin windows, Maisch, T., R. Günzler, M. Weiser, S. Kalbitzer, W. Welser and J. Kemmer A288 (1990) 19
Thin epitaxial silicon detectors, Stab, L. A288 (1990) 24
Simulation of charge transport in semiconductor radiation detectors, Lund, J.C. and F. Olschner A288 (1990) 31
Instability of the behaviour of high resistivity silicon detectors due to the presence of oxide charges, Longoni, A., M. Sampietro and L. Strüder A288 (1990) 35
Integrating transistors on high-ohmic silicon, Wouters, S.E., S.A. Audet, M.H. Kim and E.M. Schooneveld ... A288 (1990) 44
Generation lifetime monitoring on high resistivity silicon using gated diodes, Vanstraelen, G., K. De Backker, I. Debusschere, C. Claeys and G. Declerck A288 (1990) 48
Overview of radiation hardening for semiconductor detectors, Dawes Jr., W.R. A288 (1990) 54
Silicon microstrip detector radiation damage by 1.5 MeV electrons and synchrotron radiation, Chilingarov, A.G., L.V. Romanov, R. Leiste and K. Trützschler A288 (1990) 62
Measurements of degradation of silicon detectors and electronics in various radiation environments, Beuville, E., P. Cenci, A. Federspiel, C. Gössling, E.H.M. Heijne, P. Jarron, H.W. Kraner, T. Massam, D. Munday and T. Pal A288 (1990) 68
Test of radiation hardness of CMOS transistors under neutron irradiation, Sadrozinski, H.F.-W., W.A. Rowe, A. Seiden, E. Spencer, C.M. Hoffman, D. Holtkamp, W.W. Kinnison, W.F. Sommer and H.J. Ziock A288 (1990) 76
Stabilization of HgI_2 X-ray detectors, Squillante, M.R., K.S. Shah and L. Moy A288 (1990) 79

Section II. New detector types

Results on a 10 micron pitch detector with individual strip readout, Antinori, F., D. Barberis, W. Beusch, M. Dameri, J.P. Dufey, B.R. French, A. Forino, E.H.M. Heijne, A. Jacholkowski, P. Jarron, P. Legros, D. Marioli, C. Meroni, F. Muller, A. Olcese, B. Osculati, N. Redaelli, L. Rossi and D. Torretta A288 (1990) 82
The bipolar silicon microstrip detector: a proposal for a novel precision tracking device, Horisberger, R. A288 (1990) 87
Experimental confirmation of a new semiconductor detector principle, Kemmer, J., G. Lutz, U. Prechtel, K. Schuster, M. Sterzik, L. Strüder and T. Ziemann A288 (1990) 92
Realization of a staircase photodiode: towards a solid-state photomultiplier, Ripamonti, G., F. Capasso, A.L. Hutchinson, D.J. Muehlner, J.F. Walker and R.J. Malik A288 (1990) 99
Photovoltaic lead-chalcogenide IR-sensor arrays on Si for thermal imaging applications, Masek, J., C. Maissen, H. Zogg, W. Platz, H. Riedel, M. Königer, A. Lambrecht and M. Tacke A288 (1990) 104
20 ps (FWHM) GaAs photodiodes with transparent indium tin oxide Schottky gates, Mittelholzer, M., R. Loepfe, A. Schaelin and H. Melchior A288 (1990) 110
Semiconductor photodiodes in the VUV: determination of layer thicknesses and design criteria for improved devices, Krumrey, M. and E. Tegeler A288 (1990) 114
Phonon-mediated detection of X-rays in silicon crystals using superconducting transition edge phonon sensors, Young, B.A., B. Cabrera, A.T. Lee, C.J. Martoff, B. Neuhauser and J.P. McVittie A288 (1990) 119
Position sensitive detection of nuclear radiation mediated by non equilibrium phonons at low temperatures, Pröbst, F., Th. Peterreins, F. Von Feilitzsch and H. Kraus A288 (1990) 125
Silicon drift photodiodes, Avset, B.S., J. Ellison, L. Evensen, G. Hall, T-E. Hansen, S. Roe and R. Wheadon .. A288 (1990) 131
Large area silicon avalanche photodiodes for scintillation detectors, Farrell, R., F. Olschner, E. Frederick, L. McConchie, K. Vanderpuye, M.R. Squillante and G. Entine A288 (1990) 137

Section III. Integrated electronics

Evolution in the criteria that underlie the design of a monolithic preamplifier system for microstrip detectors, Buttler, W., G. Lutz, V. Liberali, F. Maloberti, P.F. Manfredi, V. Re and V. Speziali A288 (1990) 140
Improvements in low frequency noise of MOSFETs for front end amplifiers, Kandiah, K. A288 (1990) 150

AMPLEX, a low-noise, low-power analog CMOS signal processor for multi-element silicon particle detectors, Beuville, E., K. Borer, E. Chesi, E.H.M. Heijne, P. Jarron, B. Lisowski and S. Singh A288 (1990) 157
Feedback charge amplifier integrated on the detector wafer, Rehak, P., S. Rescia, V. Radeka, E. Gatti, A. Longoni, M. Sampietro, G. Bertuccio, P. Holl, L. Strüder, J. Kemmer, U. Prechtel and T. Ziemann A288 (1990) 168
An experimental 10 MHz low power CMOS analog front-end for pixel detectors, Krummenacher, F., C.C. Enz, M. Declercq, E. Vittoz, M. Campbell, E.H.M. Heijne, P. Jarron and G. Viertel A288 (1990) 176
High-speed analog CMOS pipeline system, Möschen, J., A. Caldwell, L. Hervas, B. Hosticka, U. Kötz and B. Sippach A288 (1990) 180
Noise filtering for readout electronics, Buttler, W., B.J. Hosticka and G. Lutz A288 (1990) 187
A CMOS readout system for very large detector capacitances, Schoeneberg, U., B.J. Hosticka, J. Fent, H. Oberlack and G. Zimmer A288 (1990) 191
A monolithic charge multiplexer with 0.5% accuracy, Lewis, J., G.M. McPherson, M.C. Morrissey, J.C. Thompson and A.W. Tucker A288 (1990) 197
The time slice system, DeWitt, J. A288 (1990) 209
A modular amplifier system for the readout of silicon strip detectors, Thomas, S.L., T. Davinson and A.C. Shotter A288 (1990) 212

Section IV. New applications

Applications of charge coupled devices to X-ray astrophysics missions, Lumb, D.H. A288 (1990) 219
The MPI/AIT X-ray imager (MAXI) – High speed pn CCDs for X-ray detection, Strüder, L., H. Bräuninger, M. Meier, P. Predehl, C. Reppin, M. Sterzik, J. Trümper, P. Cattaneo, D. Hauff, G. Lutz, K.F. Schuster, A. Schwarz, E. Kenziorra, A. Staubert, E. Gatti, A. Longoni, M. Sampietro, V. Radeka, P. Rehak, S. Rescia, P.F. Manfredi, W. Buttler, P. Holl, J. Kemmer, U. Prechtel and T. Ziemann A288 (1990) 227
A CCD-based vertex detector for SLD, Damerell, C.J.S., R.L. English, A.R. Gillman, A.L. Lintern, D. Phillips, D. Su, F.J. Wickens, G. Agnew, P. Clarke, S. Hedges, A. McKemey and S.J. Watts A288 (1990) 236
Successful operation of a new Si-pad detector with ASIC readout at the CERN $\bar{p}p$-collider, Ansari, R., E. Beuville, K. Borer, P. Cenci, A.G. Clark, A. Federspiel, O. Gildemeister, C. Gössling, K. Hara, E.H.M. Heijne, P. Jarron, P. Lariccia, B. Lisowski, D.J. Munday, T. Pal, M.A. Parker, M. Pepe, P. Scampoli, V. Simak, S.L. Singh and P.S. Wells A288 (1990) 240
Development of a silicon strip detector array for nuclear structure physics, Davinson, T., A.C. Shotter, E.W. Macdonald, S.V. Springham, P. Jobanputra, A.J. Stephens and S.L. Thomas A288 (1990) 245
A silicon strip detector for β-radiochromatography, Schooneveld, E.M., C.W.E. Van Eijk, R.W. Hollander, S.A. Audet and S.E. Wouters A288 (1990) 250
Basic parameters of the UCD microvertex detector, Golovatjuk, V.M., Z. Guzik, S.V. Kashigin, E.A. Khlynov, V.N. Ryzhov, E.N. Tsyganov, I.A. Tyapkin and A.S. Vodopianov A288 (1990) 254
An alignment method for the MARK II silicon strip vertex detector using an X-ray beam, Adolphsen, C., G. Gratta, L. Labarga, A. Litke, A. Schwarz, M. Turala, C. Zaccardelli, A. Breakstone, S. Parker, B. Barnett, C. Boswell, P. Dauncey, D. Drewer, J. Matthews, S. Vejcik, R. Jacobsen and V. Lüth A288 (1990) 257
Proposal for a uranium–silicon precision calorimeter for the UNK 6 TeV hadron collider, Bashindzhagyan, G.L., P.F. Ermolov, N.B. Sinev and A.G. Voronin A288 (1990) 265
A room-temperature CCD imaging system for the detection of beta-emitting tracers, Ellilä, M. and K. Pollari .. A288 (1990) 267

Section V. Industrial production

High resistivity silicon for detector applications, Dreier, P. A288 (1990) 272
Intertechnique capabilities in detector fabrication, Henck, R. A288 (1990) 278
Present and future developments of Si detectors at MBB, Kemmer, J. A288 (1990) 282
Canberra Semiconductor, an industrial partner for physics reseach, Verplancke, J., P. Burger and W. Schoenmaekers A288 (1990) 287
Demands of future high energy physics experiments, Turala, M. A288 (1990) 290

Analysis and simulation of hadronic showers in a uranium gas-sampling calorimeter, L3 Collaboration, A. Arefiev, T. Azemoon, H.S. Chen, G.M. Chen, Yu. Galaktionov, Yu. Kamyshkov, A. Kunin, P. Le Coultre, J. Lettry, J.B. Mills, V. Plyaskin, V. Shoutko, E. Shumilov, B. Spiess and J. Ulbricht A288 (1990) 364
Semiconductor microstrip detector with a resistive layer, Barabash, L.S., E. Belcarz, Yu.B. Gurov, E.I. Maltsev, L.P. Mészáros, Yu.P. Petukhov, A.G. Pimenov and V.G. Sandukovsky A288 (1990) 375
Measurement of the inclusive p–C analyzing power and cross section in the 1 GeV region and calibration of the new polarimeter POMME, Bonin, B., A. Boudard, H. Fanet, R.W. Fergerson, M. Garçon, C. Giorgetti, J. Habault, J. Le Meur, R.M. Lombard, J.C. Lugol, B. Mayer, J.P. Mouly, E. Tomasi-Gustafsson, J.C. Duchazeaubeneix, J. Yonnet, M. Morlet, J. Van de Wiele, A. Willis, G. Greeniaus, G. Gaillard, P. Markowitz, C.F. Perdrisat, R. Abegg and D.A. Hutcheon A288 (1990) 379

POMME: a medium energy deuteron polarimeter based on semi-inclusive d-carbon scattering, Bonin, B., A. Boudard, H. Fanet, R.W. Fergerson, M. Garçon, C. Giorgetti, J. Habault, J. Le Meur, R.M. Lombard, J.C. Lugol, B. Mayer, J.P. Mouly, E. Tomasi-Gustafsson, J.C. Duchazeaubeneix, J. Yonnet, M. Morlet, J. Van de Wiele, A. Willis, G. Greeniaus, G. Gaillard, P. Markowitz, C.F. Perdrisat, R. Abegg and D.A. Hutcheon . . . A288 (1990) 389

A nuclear fragment detector for experiments with backscattered laser photons, Alexandrov, B.M., D.I. Ivanov, G.Ya. Kezerashvili, A.S. Krivokhatsky, V.V. Muratov, V.G. Nedorezov, A.S. Sudov and V.A. Zapevalov . . . A288 (1990) 399

The construction of the L3 experiment, Adeva, B., M. Aguilar-Benitez, H. Akbari, J. Alcaraz, A. Aloisio, J. Alvarez-Taviel, G. Alverson, M.G. Alviggi, H. Anderhub, A.L. Anderson, A.M. Angelov, T.H. Angelov, G.H. Antchev, L. Antonov, D. Antreasyan, A. Arefiev, I.H. Atanasov, B. Auroy, R. Ayad, O.L. Ayranov, T. Azemoon, T. Aziz, U. Bachmann, P. Bähler, J.A. Bakken, L. Baksay, H. Baldinger, R.C. Ball, J. Ballansat, S. Banerjee, J. Bao, G. Barbier, L. Barone, G. Basti, A. Bay, F. Beauvais, U. Becker, R. Beissel, S. Bendig, P. Béné, J. Berdugo, P. Berges, M. Berthet, Y. Bertsch, B.L. Betev, A. Biland, A. Bischoff, M. Bischops, R. Bizzarri, J.J. Blaising, M. Blanc, P. Blömeke, B. Blumenfeld, G.J. Bobbink, M. Bocciolini, K.D. Boffin, W. Bohlen, A. Böhm, T. Böhringer, H. Bonnefon, C. Bopp, B. Borgia, K. Bosseler, J.F. Bottolier, M. Bourquin, D. Boutigny, P. Bowditch, J.G. Branson, D. Braun, I.C. Brock, F. Bruyant, M. Buchholz, B. Bücken, W. Bulgeroni, R. Burel, J.D. Burger, C. Burgos, J.P. Burq, L. Caiazzo, M. Caillat, B. Camberlin, D. Campana, C. Camps, V. Canale, M. Capell, F. Carbonara, F. Carminati, A.M. Cartacci, M. Cerrada, F. Cesaroni, Y.H. Chang, J.W. Chapman, M. Chemarin, A. Chen, C. Chen, H.F. Chen, H.S. Chen, M. Chen, M.L. Chen, S.R. Chendvankar, G. Chevenier, S. Chidzik, G. Chiefari, C.Y. Chien, F. Chollet, M. Chumakov, C. Civinini, I. Clare, R. Clare, G. Coignet, N. Colino, V. Commichau, G. Conforto, P. Cristofori, F. Crijns, X.Y. Cui, T.S. Dai, R. D'Alessandro, M. Daniel, X. De Bouard, B. Debye, G. Decreuse, A. Degré, K. Deiters, E. Dénes, P. Denes, F. DeNotaristefani, M. Deutschmann, M. Dhina, B. Didierjean, M. Diemoz, M. Dietrich, H.A. Dimitrov, C. Dionisi, F. Dittus, M. Dohmen,R. Dolin, J.F. Donahue, A. Donat, E. Drago, K.H. Dreger, T. Driever, G. Dromby, P. Duinker, I. Duran, M. Elkacimi, H. Elmamouni, A. Engler, F.J. Eppling, F.C. Erné, I. Erne, H. Esser, P. Extermann, R. Fabbretti, G. Faber, S. Falciano, T. Falk, S.J. Fan, M. Favre, J. Fay, S. Fehér, J. Fehlmann, M. Feldmann, H. Fenker, T. Ferguson, M. Fernandez, F. Ferroni, H. Fesefeldt, J. Field, J.M. Figarola, C.F. Figueroa, G.A. Filipov, B. Foligné, G. Forconi, T. Foreman, V. Franzke, W. Frei, K. Freudenreich, W. Friebel, M. Fukushima, G. Gaillard, M. Gailloud, Yu. Galaktionov, E. Gallo, S.N. Ganguli, D. Garelick, S.S. Gau, G. Gavrilov, E. Gennari, S. Gentile, M. Gettner, C. Girard, M. Glaubman, S. Goldfarb, Z.F. Gong, E. Gonzalez, A. Gordeev, Yu. Gorodkov, P. Göttlicher, C. Goy, M. Goyot, G. Gratta, A. Grimes, C. Grinnell, M. Gruenewald, M. Guanziroli, S. Guerra, C. Guillon, A. Gurtu, D. Güsewell, H.R. Gustafson, M. Haensli, M. Haan, C. Haller, T. Hamacher, H. Hammers, K. Hangarter, S. Hancke, M. Harris, D. Harting, F.G. Hartjes, C.F. He, A. Heavey, T. Hebbeker, M. Hebert, R. Heller, Ch. Helmrath, J. Herrmann, G. Herten, U. Herten, A. Hervé, H. Hesser, G. Hilgers, K. Hilgers, H. Hofer, H. Hofer, M. Hofer, T. Hofer, F. Hoffmann, U. Horisberger, I. Horvath, L.S. 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Magahiz, M. Maire, P.K. Malhotra, A. Malinin, C. Mana, F. Manna, G. Manto, Y.F. Mao, M. Maolinbay, P. Marchesini, A. Marchionni, M. Markwalder, P. Marsden, J.P. Martin, L. Martinez, H.U. Martyn, F. Marzano, V. Marzullo, F. Masciocchi, G.G.G. Massaro, L. Massonnet, T. Matsuda, G. Maurelli, K. Mazumdar, P. McBride, G. Medici, H. Meier, Th. Meinholz, M. Merk, R. Mermod, L. Merola, M. Meschini, W.J. Metzger, M. Micke, U. Micke, G.B. Mills, J. Mnich, M. Moeller, A. Molinero, L. Montanet, B. Monteleoni, R. Montino, G. Morand, R. Morand, S. Morganti, V. Morgunov, R. Mount, M. Moynot, P. Mugnier, W. Nägeli, E. Nagy, M. Napolitano, S. Neboux, H. Newman, Ch. Neyer, K. Nguyen, L. Niessen, A. Nikitin, W.D. Nowak, M. Okle, P. Olmos, J. Onvlee, D. Osborne, J. Ossmann, D. Pandoulas, H. Paprotny, A. Parmentola, G. Passeggio, G. Paternoster, S. Patricelli, Y.J. Pei, Y. Peng, Y. Peng, D. Perret-Gallix, J. Perrier, E. Perrin, G. Perrot, P. Petitpas, P. Petschner, A. Pevsner, J. Pier-Amory, M. Pieri, V. Pieri, G. Pierschel, P.A. Piroué, V. Plyaskin, M. Pohl, V. Pojidaev, C.L.A. Pols, T. Ponomareff, J. Potyka, N. Produit, P. Prokofiev, F. Pruja, G. Pütz, J.M. Qian, R. Raghavan, P. Razis, K. Read, P. Reddick, K. Reissmann, D. Ren, S. Reucroft, D. Rey, M. Reynaud, X. Ricadonna, J-P. Richeux, C. Rippich, U. Rinsche, R. Rocco, S. Rodriguez, B.P. Roe, M. Röhner, S. Röhner, Th. Rombach, L. Romero, J. Rose, U. Röser, S. Rosier-Lees, J.A. Rubio, W. Ruckstuhl, H. Rykaczewski, P. Sahuc, J. Salicio, S. Saran, G. Sauvage, A. Savin, T. Schaad, B. Schafheitle, V. Schegelsky, A. Schetkovsky, F. Schild, R. Schillsott, P. Schmitt, D. Schmitz, P. Schmitz, M. Schneegans, M. Schneider, E. Schneevogt, M. Schöntag, D.J. Schotanus, H.

Schuijlenburg, R. Schulte, A. Schultz von Dratzig, K. Schultze, J. Schwenke, G. Schwering, C. Sciacca, P.G. Seiler, J.C. Sens, I. Sheer, V. Shevchenko, S. Shevchenko, X.R. Shi, K. Shmakov, V. Shoutko, E. Shumilov, R. Siedling, N. Smirnov, V. Souvorov, C. Souyri, I. Spangler, T. Spickermann, B. Spiess, P. Spillantini, R. Starosta, M. Steuer, D.P. Stickland, B. Stöhr, H. Stone, K. Strauch, K. Sudhakar, R.L. Sumner, H. Suter, R.B. Sutton, H. Szczesny, J. Tang, X.W. Tang, E. Tarkovsky, A. Tavenrath, V. Tchudakov, J.M. Thenard, E. Thomas, T. Thon, H. Thuerig, M. Thulen, C. Timmermans, S.C.C. Ting, S.M. Ting, F. Tonisch, Y.P. Tong, M. Tonutti, S.C. Tonwar, J. Tòth, W. Toth, G. Trowitzsch, K.L. Tung, J. Ulbricht, L. Urbàn, E. Valente, R.T. Van de Walle, H. Van der Graaf, V. Vanzanella, M. Vergain, I. Vetlitsky, H. Vey, G. Viertel, M. Vivargent, H. Vogel, S. Volkov, M. Vollmar, H.P. Von Gunten, I. Vorobiev, A. Vorobyov, L. Vuilleumier, S. Waldmeier, W. Walk, W. Wallraff, C.Y. Wang, G.H. Wang, J.H. Wang, Q.F. Wang, X.L. Wang, Y.F. Wang, Z.M. Wang, Z.M. Wang, D. Wassenberg,D. Wegmann, R. Weill, T.J. Wenaus, P. Wenger, J. Wenninger, M. White, R. Wilhelm, C. Willmott, H.P. Wirth, F. Wittgenstein, R.J. Wu, S.X. Wu, Y.G. Wu, B. Wyslouch, F.Y. Xi, Z.Z. Xu, Z.L. Xue, D.S. Yan, K.D. Yanev, B.Z. Yang, C.G. Yang, K.S. Yang, Q.Y. Yang, Z.Q. Yang, C.H. Ye, S.C. Yeh, Z.W. Yin, C. Zabounidis, L. Zehnder, Y. Zeng, D.H. Zhang, S.Y. Zhang, Z.P. Zhang, B. Zhou, J.F. Zhou, Z.P. Zhou, R.Y. Zhu, A. Zichichi, M. Zofka and J. Zoll A289 (1990) 35

Z coordinate determination on the L3 muon filter, D'Alessandro, R. A289 (1990) 103

The LEAR PS177 low energy K^+ detector, Armstrong, T.A., D.M. Elias, R.A. Lewis, E.D. Minor, J. Passaneau and G.A. Smith A289 (1990) 109

Test of the ZEUS forward calorimeter prototype, The ZEUS Calorimeter Group, U. Behrens, J. Crittenden, K. Dierks, G. Drews, J. Engelen, B. Frisken, R. Hamatsu, D. Hanna, U. Holm, M.A. Garcia, D. Hasell, T. Hasegawa, R. Klanner, O. Köll, P. Kooijman, U. Kötz, M. Krämer, J. Krüger, J. Lehmann, G. Levman, D. Lüke, J. Martin, P. Neelin, M. Rohde, E. Ros, F. Selonke, G. Smith, G. Stairs, J. Straver, H. Tiecke, J.F. Trocóniz, T. Tsurugai, W. Vogel, K. Wick, M. Wülker and C. Youngman A289 (1990) 115

A novel segmentation for charge sampling calorimeters, Mockett, P.M. A289 (1990) 139

Hybrid emulsion spectrometer for the detection of hadronically produced heavy flavor states, Kodama, K., N. Ushida, R.L. Lander, A. Mokhtarani, V.S. Paolone, J.O. Wilcox, P.M. Yager, R.M. Edelstein, A.P. Freyberger, D.B. Gibaut, R.J. Lipton, W.R. Nichols, D.M. Potter, J.R. Russ, Y. Zhang, H.I. Jang, J.Y. Kim, M.Y. Pac, B.R. Baller, R.J.Stefanski, K. Nakazawa, S. Tasaka, Y.S. Choi, K.H. Chung, D.C. Kim, I.G. Park, J.S. Song, C.S. Yoon, M. Chikawa, T. Abe, T. Fujii, G. Fujioka, K. Fujiwara, H. Fukushima, T. Hara, Y. Takahashi, K. Taruma, Y. Tsuzuki, C. Yokoyama, S.D. Chang, B.G. Cheon, J.H. Cho, J.S. Kang, C.O. Kim, K.Y. Kim, T.Y. Kim, J.C. Lee, S.B. Lee, G.Y. Lim, I.T. Lim, S.W. Nam, T.S. Shin, K.S. Sim, J.K. Woo, Y. Isokane, Y. Tsuneoka, S. Aoki, A. Gauthier, K. Hoshino, H. Kitamura, M. Kobayashi, M. Miyanishi, K. Nakamura, M. Nakamura, Y. Nakamura, S. Nakanishi, K. Niu, K. Niwa, H. Tajima, J.M. Dunlea, S.G. Frederiksen, S. Kuramata, B.G. Lundberg, G.A. Oleynik, N.W. Reay, K. Reibel, C.J. Rush, R.A. Sidwell, N.R. Stanton, K. Moriyama, H. Shibata, T.S. Jaffery, G.R. Kalbfleisch, P.L. Skubic, J.M. Snow, S.E. Willis, W.Y. Yuan, O. Kusumoto, T. Okusawa, M. Teranaka, T. Tominaga, T. Watanabe, J. Yamato, H. Okabe, J. Yokota, M. Kazuno, F. Minakawa, E. Niu, S. Ono, H. Shibuya, S. Watanabe, Y. Sato, I. Tezuka, S.Y. Bahk and S.K. Kim A289 (1990) 146

A modified QDD spectrometer for η meson decay measurements, Moalem, A., F. Meot, G. Leleux, J.P. Penicaud, A. Tkatchenko and P. Birien A289 (1990) 168

Gas system for ALEPH TPC, Barczewski, T., L.A.T. Bauerdick, L. Bellantoni, E. Blucher, W. Blum, J. Boudreau, D. Cinabro, J. Conway, D.F. Cowen, J. Fagerstrom, F. Fidecaro, B. Gobbo, A. Halley, S. Haywood, A. Jahn, R.C. Jared, R. Johnson, M. Kasemann, B. Leclaire, I. Lehraus, T. Lohse, A. Lusiani, P.S. Marrocchesi, J. May, E. Milotti, A. Minten, J. Pater, J. Richstein, R. Richter, W. Richter, S. Röhn, L. Rolandi, A. Roth, H. Rotscheidt, D. Schlatter, M. Schmelling, R. Settles, F. Steeg, G. Stefanini, M. Takashima, W. Tejessy, J. Thomas, A. Vayaki, J. Wear, W. Wiedenmann, W. Witzeling and S.L. Wu A289 (1990) 176

Crimping: a wire fastening technique in wire chamber construction, Howell, B., D. Koltick and M. Kobayashi . A289 (1990) 185

Proceedings of the Fourth Pisa Meeting on Advanced Detectors: Frontier Detectors for Frontier Physics (Isola d'Elba, La Biodola, Italy, May 21–25, 1989)

Opening speech

From here to the SSC, Bellettini, G. A289 (1990) 329

Section I. Progress in tracking

Electron identification with the UA2 scintillating fibre detector, Wood, D.R. A289 (1990) 331

Test results of the L3 precision muon detector, Adeva, B., M. Aguilar-Benitez, A. Aloisio, M.G. Alviggi, D. Antreasyan, L. Baksay, U. Becker, J. Berdugo, G.J. Bobbink, J.G. Branson, C. Burgos, J.D. Burger, D. Campana, F. Carbonara, M. Cerrada, Y.H. Chang, M.L. Chen, G. Chiefari, N. Colino, E. Drago, P. Duinker, I. Duran, F. Erné, R. Fabbretti, M. Fabre, S. Feher, S.S. Gau, M. Gettner, E. Gonzalez, H. Van der

Graaf, D. Güsewell, F.G. Hartjes, V. Innocente, B.N. Jin, A. König, S. Lanzano, J.M. LeGoff, X. Leijtens, L. Li, S. Lokos, C. Mana, L. Martinez, G.G.G. Massaro, Y.F. Mao, R. Magahiz, P. McBride, L. Merola, M. Napolitano, H. Onvlee, G. Paternoster, S. Patricelli, Y. Peng, O. Prokofiev, J.M. Qian, P. Razis, L. Romero, J.A. Rubio, H. Rykaczewski, J. Salicio, A. Schetkovsky, P. Schmitt, C. Sciacca, P.G. Seiler, V. Souvorov, K. Strauch, C. Timmermans, S. Volkov, J.H. Wang, Q.F. Wang, Z.M. Wang, T. Wenaus, M. White, R. Wilhelm, C. Willmott, B. Wyslouch, F.Y. Xi, B.Z. Yang, C.G. Yang, Q.Y. Yang, C.H. Ye, S.C. Yeh, C.R. Zabounidis and Z.P. Zhang A289 (1990) 335

WA84 experiment: a beauty search with a scintillating-fibre microvertex detector, WA84 Collaboration, C. Angelini, W. Beusch, A. Cardini, D.J. Crennell, M. De Vincenzi, G. Di Vita, A. Duane, J.-P. Fabre, V. Flaminio, A. Frenkel, T. Gys, K. Harrison, E. Lamanna, H. Leutz, D. Lucchesi, G. Martellotti, J.G. McEwen, D.R.O. Morrison, G. Penso, S. Petrera, C. Roda, A. Sciubba, E. Vicari and D.M. Websdale A289 (1990) 342

A new gaseous detector for tracking: the blade chamber, The LAA-LAD Group, G. Ambrosi, T. Barillari, R. Battiston, F. Bergsma, D. Boscherini, G. Bruni, H. Castro, A. Contin, S. De Pasquale, J. Galvez, P. Giusti, J.C. Labbé, G. Laurenti, G. Levi, G. Maccarrone, D. Mattern, R. Nania, V. O'Shea, F.Rivera, M. Schioppa, A. Sharma, G. Simonet, G. Susinno, M.C.S. Williams and A. Zichichi A289 (1990) 351

Sources of noise in high-resolution tracking with scintillating fibres, WA84 Collaboration, C. Angelini, W. Beusch, A. Cardini, D.J. Crennell, M. De Vincenzi, G. Di Vita, A. Duane, J.P. Fabre, V. Flaminio, A. Frenkel, T. Gys, K. Harrison, E. Lamanna, H. Leutz, G. Martellotti, J.G. McEwen, D.R.O. Morrison, G. Penso, S. Petrera, C. Roda, A. Sciubba, E. Vicari, D.M. Websdale and G. Wilquet A289 (1990) 356

Tracking with wire chambers at the SSC, Hanson, G.G., M.C. Gundy and A.P.T. Palounek A289 (1990) 365

The small angle spectrometer of CDF, Bertolucci, S., G. Chiarelli, M. Cordelli, P. Giromini, S. Miscetti, A. Sansoni, T.J. Chapin, N. Giokaris, K. Goulianos, R. Plunkett, S.N. White, G. Apollinari, S. Belforte, F. Cervelli, E. Focardi, R. Paoletti, G. Tonelli and F. Zetti A289 (1990) 375

A prototype microstrip gas detector, Hartjes, F., B. Hendriksen and F. Udo A289 (1990) 384

Section II. Semiconductor detectors

The CDF SVX: a silicon vertex detector for a hadron collider, Carithers, W.C., R.P. Ely, C. Haber, S. Holland, F. Kirsten, S. Kleinfelder, H. Spieler, W.C. Wester, M. Wong, F. Bedeschi, S. Galeotti, A. Menzione, G. Punzi, F. Raffaelli, F. Zetti, D. Amidei, T. Bohn, H. Carter, M. Hyrcyk, R. Kephart, C. Nelson, S. Segler, D. Tousignant, S. Tkacek, A. Tollestrup, K. Turner, R. Yarema, T. Zimmermann, C. Boswell, J. Matthews and S. Vejcik A289 (1990) 388

Status of the DELPHI vertex detector: alignment methods and geometrical resolution, Dijkstra, H., R. Horisberger, L. Hubbeling, B.D. Hyams, G. Maelhum, A. Peisert, P. Weilhammer, P. Jalocha, P. Kapusta, M. Turala, A. Zalewska, E. Sundell, T. Tuuva, M. Laakso, M. Caccia, W. Kucewicz, C. Meroni, N. Redaelli, A. Stocchi, C. Troncon, R. Turchetta, G. Vegni, M. Mazzuccato, M. Pegoraro, P. Allport, G. Kalmus, P. Seller, M. Tyndel and A. Smith A289 (1990) 400

Calorimetric ionization detector, Luke, P.N., J. Beeman, F.S. Goulding, S.E. Labov and E.H. Silver A289 (1990) 406

State of the art in semiconductor detectors, Rehak, P. and E. Gatti A289 (1990) 410

Section III. Front-end electronics

Design of monolithic preamplifiers employing diffused n-JFETs for ionization chamber calorimeters, Demicheli, M., P.F. Manfredi, V. Radeka, S. Rescia and V. Speziali A289 (1990) 418

Gallium-arsenide charge-sensitive preamplifier for operation in a wide low-temperature range, Alessandrello, A., C. Brofferio, D.V. Camin, A. Giuliani, G. Pessina and E. Previtali A289 (1990) 426

Section IV. Calorimeters

Performance of the DØ uranium–liquid argon calorimeter modules, Franzini, P., for the DØ Calorimeter Group A289 (1990) 438

Liquid argon calorimetry at the H1 experiment, Flauger, W. A289 (1990) 446

Survey of the response of standard limited streamer tubes over the complete range of three-component gas mixtures of isobutane, CO_2, argon, SLD-WIC Collaboration, A. Calcaterra, R. De Sangro, P. De Simone, P.N. Burrows, S.L. Cartwright, S. Gonzalez, A. Lath, U. Schneekloth, D.C. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, M. Loreti, L. Pescara, M. Tecchio, J.Wyss, B. Alpat, R. Battiston, G.M. Bilei, R. Dell'Orso, M. Pauluzzi, L. Servoli, M. Carpinelli, R. Castaldi, C. Vannini, B.L. Byers, D. Kharakh, R.L. Messner, R.W. Zdarko and J.R. Johnson A289 (1990) 449

The SLD calorimeter system, Benvenuti, A.C., L. Piemontese, A. Calcaterra, R. De Sangro, P. De Simone, I. Peruzzi, M. Piccolo, P.N. Burrows, W. Busza, S.L. Cartwright, J.I. Friedman, S. Fuess, S. Gonzalez, T. Hansl-Kozanecka, H.W. Kendall, A. Lath, T. Lyons, L.S. Osborne, L. Rosenson, U. Schneekloth, F.E. Taylor, R. Verdier, D. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, M. Loreti, L. Pescara, J. Wyss, B. Alpat, R . Battiston, G.M. Bilei, R. Dell'Orso, G. Mantovani, M. Pauluzzi, L. Servoli, M. Carpinelli, R. Castaldi, C. Vannini, P.G. Verdini, B.L. Byers, D. Kharakh, R.L. Messner, R.W. Zdarko and J.R. Johnson A289 (1990) 463

Investigation of an electromagnetic calorimeter based on liquid krypton, Aulchenko, V.M., S.G. Klimenko, G.M. Kolachev, L.A. Leontiev, A.P. Onuchin, V.S. Panin, Yu.V. Pril, V.A. Rodyakin, A.V. Rylin, V.A. Tayursky, Yu.A. Tikhonov, P. Cantoni, P.L. Frabetti, L. Stagni, G. Lo Bianco, F. Palombo, P.F. Manfredi, V. Reand V. Speziali A289 (1990) 468
New tools for the simulation and design of calorimeters, Womersley, W.J. A289 (1990) 475
The UA1 uranium–TMP calorimeter: Project and results from first full scale prototype, UA1 Collaboration .. A289 (1990) 482
The high resolution neutrino calorimeter KARMEN, Drexlin, G., V. Eberhard, H. Gemmeke, G. Giorginis, W. Grandegger, R. Gumbsheimer, H. Hucker, L. Husson, J. Kleinfeller, R. Maschuw, P. Plischke, G. Spohrer, F.K. Schmidt, J. Wochele, S. Wölfle, B. Zeitnitz, B. Bodman, F. Burtak, E. Finckh,A. Glombik, W. Kretschmer, F. Schilling, D. Vötisch, J.A. Edgington, T. Gorringe, A. Malik, N.E. Booth, A. Dodd and A.G.D. Payne A289 (1990) 490
Performance of the hadron calorimeter for FNAL experiment E687, Park, S., D. Buchholz, C. Castoldi, D. Claes, B. Gobbi, R. Yoshida, A. Sala, V. Arena, G. Boca, A. Cotta-Ramusino, R. Diaferia, S. Ratti and P. Vitulo A289 (1990) 496

Section V. Detectors for general physics experiments

Bolometers, Alessandrello, A., C. Brofferio, D.V. Camin, O. Cremonesi, E. Fiorini, A. Giuliani, G. Pessina and E. Previtali A289 (1990) 504
Recent developments in superheated superconducting granular detectors, Turrell, B.G., M. Legros, A. Da Silva, A. Kotlicki and A.K. Drukier A289 (1990) 512
The VIRGO project: a wide band antenna for gravitational wave detection, Bradaschia, C., R. Del Fabbro, A. Di Virgilio, A. Giazotto, H. Kautzky, V. Montelatici, D. Passuello, A. Brillet, O. Cregut, P. Hello, C.N. Man, P.T. Manh, A. Marraud, D. Shoemaker, J.Y. Vinet, F. Barone, L. Di Fiore, L. Milano, G. Russo, J.M. Aguirregabiria, H. Bel, J.P. Duruisseau, G. Le Denmat, Ph. Tourrenc, M. Capozzi, M. Longo, M. Lops, I. Pinto, G. Rotoli, T. Damour, S. Bonazzola, J.A. Marck, Y. Gourghoulon, L.E. Holloway, F. Fuligni, V. Iafolla and G. Natale A289 (1990) 518
A compact versatile dilution refrigerator with top-loading capability, Van den Brandt, B., J.A. Konter and S. Mango A289 (1990) 526
Resistance of Si:P samples in the temperature range 0.4–5.0 K, Beverini, N., C. Boragno, B. Van den Brandt, F. Maggiani, S. Mango, L. Olivi, R. Poggiani, G. Torelli and U. Valbusa A289 (1990) 532

Section VI. Data acquisition and trigger

Feature extraction in future detectors, Bock, R.K., Y. Ermolin, W. Krischer, C. Ljuslin, S. Lone and K. Zografos A289 (1990) 534
Study of a fast trigger system on beauty events at fixed target and colliders, Amendolia, S.R., F. Bedeschi, G. Bellettini, S. Galeotti, A. Lusiani, A. Menzione, F. Morsani, D. Passuello and L. Ristori A289 (1990) 539
The fast trigger for the DØ experiment, Abolins, M., D. Edmunds, P. Laurens and B. Pi A289 (1990) 543
High speed data-driven processing, Knapp, B.C. A289 (1990) 561
Data acquisition for the ALEPH TPC: a case study for LEP, Amendolia, S.R., F. Fidecaro, A. Lusiani and P.S. Marrocchesi A289 (1990) 569
The digital data acquisition chain and the cosmic ray trigger system for the SLD warm iron calorimeter, Benvenuti, A., L. Piemontese, A. Calcaterra, R. De Sangro, P. De Simone, P.N. Burrows, S.L. Cartwright, S. Gonzales, A. Lath, U. Schneekloth, D.C. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, S. Galvagni, M. Loreti, L. Pescara, J. Wyss, B. Alpat, G.M. Bilei, B. Checcucci, R. Dell'Orso, M. Pauluzzi, L. Servoli, M. Carpinelli, R. Castaldi, U. Cazzola, C. Vannini, P.G. Verdini, R.L. Messner, R.W. Zdarko and J.R. Johnson A289 (1990) 577
Fast trigger for beauty hadroproduction study, Darbo, G. and L. Rossi A289 (1990) 584
The use of image processing in tracking, Ermolin, Y. and C. Ljuslin A289 (1990) 592
Data acquisition and online processing requirements for experimentation at the superconducting super collider, Lankford, A.J., E. Barsotti and I. Gaines A289 (1990) 597
Performance of the CDF level 3 trigger, Carroll, J.T., U. Joshi, P. Auchincloss, T. Devlin, B. Flaugher, P. Hu, T. Watts and K. Ragan A289 (1990) 606
Starnet, a high-speed fiber optical network for particle physics application, Bacilieri, P., B. Caccia, R. Cardarelli, O. Ciaffoni, M. Coli, G. Di Pirro, M.L. Ferrer, A. Ghiselli, A. Martini, G. Medici, G. Mirabelli, E. Pace, R. Santonico, L. Trasatti, E. Valente and S. Valentini A289 (1990) 610

Section VII. New detection techniques

A compact threshold Cherenkov detector, Okx, W.J.C., C.W.E. Van Eijk, N.W. Tanner and R. De Vries A289 (1990) 614
Development of a RICH detector for ultrarelativistic heavy ion collisions, Vasileiadis, G., R. Bouclier, W. Dominik, A. Gougas, A. Ljubičić Jr., M. Mongelli, E. Nappi, G. Paić, A. Petridis, A. Sandoval, E. Schmoetten, D. Vranić and N. Zaganidis A289 (1990) 618
The multistep chamber as a hardware event buffer, Astier, P., G. Charpak, W. Dominik and F. Sauli A289 (1990) 626

A single arm spectrometer detector system for high-energy heavy-ion experiments, E-802 Collaboration, T. Abbott, M. Abreu, Y. Akiba, D. Alburger, D. Beavis, R.R. Betts, L. Birstein, M.A. Bloomer, P.D. Bond, C. Chasman, Y.Y. Chu, B.A. Cole, J.B. Costales, H.J. Crawford, J.B. Cumming, R. Debbe, E. Duek, H. Enge, J. Engelage, S.Y. Fung, L. Grodzins, S. Gushue, H. Hamagaki, O. Hansen, P. Haustein, S. Hayashi, S. Homma, H.Z. Huang, Y. Ikeda, I. Juricic, S. Katcoff, S. Kaufman, K. Kimura, K. Kurita, R. Lanza, R.J. Ledoux, M.J. Levine, M. Mariscotti, Y. Miake, R.J. Morse, S. Nagamiya, J. Olness, C.G. Parsons, L.P. Remsberg, M. Sarabura, A. Shor, P. Stankus, S.G. Steadman, G.S.F. Stephans, T. Sugitate, M. Tanaka, M.J. Tannenbaum, M. Torikoshi, J.H. Van Dijk, F. Videbæk, P. Vincent, E. Vulgaris, V. Vutsadakis, B. Wadsworth, W.A. Watson III, H.E. Wegner, D.S. Woodruff, Y.D. Wu and W.A. Zajc A290 (1990) 41

The dilepton spectrometer, Yegneswaran, A., S. Beedoe, J. Bystricky, J. Carroll, S. Christo, G. Claesson, P. Force, R. Fulton, J.F. Gilot, J. Gordon, T. Hallman, D.L. Hendrie, G. Igo, P. Kirk, G.F. Krebs, E. Lallier, G. Landaud, A. Letessier-Selvon, L. Madansky, H.S. Matis, D. Miller, T. Mulera, C. Naudet, D. Nesbitt, P. Oillataguerre, G. Roche, L.S. Schroeder, P.A. Seidl, R. Welsh, Z. Wang and I. Xu A290 (1990) 61

Development studies for the OPAL end cap electromagnetic calorimeter using vacuum photo triode instrumented leadglass, Akrawy, M., G.T.J. Arnison, J.R. Batley, K.W. Bell, R.M. Brown, A.A. Carter, J.R. Carter, W.M. Evans, N.I. Geddes, C.N.P. Gee, W.R. Gibson, M.J. Goodrick, P.W. Jeffreys, P. Kyberd, G.N. Patrick, M.D. Rousseau, R.A. Sansum, B.J. Saunders, M. Sproston and C.P. Ward A290 (1990) 76

Response of a uranium–scintillator calorimeter to electrons, pions and protons in the momentum range 0.5–10 GeV/c, The ZEUS Calorimeter Group, A. Andresen, A. Bamberger, U. Behrens, J. Crittenden, A. Caldwell, J. Dawson, J. Engelen, B. Frisken, D. Gilkinson, R. Hamatsu, D. Hanna, D. Hasell, L. Hervas, U. Holm, A. Fürtjes, R. Klanner, P. Kooijman, U. Kötz, M. Krämer, J. Krüger, G. Levman, P. Malecki, J. Martin, J. Mitchell, P. Patel, M. Rohde, T. Romanowski, E. Ros, W. Sippach, D. Schäcke, J. Straver, H. Tiecke, T. Tsurugai, W. Vogel, K. Wick and C. Youngman A290 (1990) 95

A scintillating fiber detector for π^0 identification, Rusi El Hassani, A.J., W. Beer, J-F. Gilot, P.F.A. Goudsmit, H.J. Leisi, S. Thomann and W. Volken A290 (1990) 109

Study of θ-inclined tracks in L3 muon chambers, Adeva, B., M. Aguilar-Benitez, A. Aloisio, M.G. Alviggi, D. Antreasyan, L. Baksay, U. Becker, J. Berdugo, G.J. Bobbink, J.G. Branson, C. Burgos, J.D. Burger, D. Campana, F. Carbonara, M. Cerrada, Y.H. Chang, M.L. Chen, G. Chiefari, N. Colino, E. Drago, P. Duinker, I. Duran, F. Erné, R. Fabbretti, M. Fabre, S. Feher, S.S. Gau, M. Gettner, E. Gonzalez, H. Van der Graaf, D. Güsewell, F.G. Hartjes, V. Innocente, B.N. Jin, A. König, S. Lanzano, J.M. LeGoff, X. Leijtens, L. Li, S. Lokos, C. Mana, L. Martinez, G.G.G. Massaro, Y.F. Mao, R. Magahiz, P. McBride, L. Merola, M. Napolitano, H. Onvlee, G. Paternoster, S. Patricelli, Y. Peng, O. Prokofiev, J.M. Qian, P. Razis, L. Romero, J.A. Rubio, H. Rykaczewski, J. Salicio, A. Schetkovsky, P. Schmitt, C. Sciacca, P.G. Seiler, V. Souvorov, K. Strauch, C. Timmermans, S. Volkov, J.H. Wang, Q.F. Wang, Z.M. Wang, T. Wenaus, M. White, R. Wilhelm, C. Willmott, B. Wyslouch, F.Y. Xi, B.Z. Yang, C.G. Yang, Q.Y. Yang, C.H. Ye, S.C. Yeh, C.R. Zabounidis and Z.P. Zhang A290 (1990) 115

Study of fast gases, resolutions and contaminants in the DØ muon system, Butler, J.M., D. Eartly, D. Green, H. Haggerty, S. Hansen, S. Igarashi, H. Jöstlein, J. Li, R. Li, E. Malamud, H. Mao, P. Martin, N. Oshima, R. Yamada, P. Xie, T. Marshall, S. Kunori, M. Fortner, J. Green, D. Hedin, T. Kramer, P. Lee, A. Tseng, S. Willis, Y. Antipov, B. Baldin, D. Denisov, S. Denisov, V. Glebov and N. Mokhov A290 (1990) 122

Polysiloxane-based scintillators doped with oligophenylenes: effect of color centers on radiation stability, Feygelman, V.M., J.K. Walker and J.P. Harmon A290 (1990) 131

The SAT calorimeter of the DELPHI experiment at LEP; results of a module test, Alvsvåg, S.J., B. Eide, A.G. Frodesen, B. Grung, P.S. Iversen, A. Klovning, D. Kvaavik, E. Lillestøl, E. Lillethun, O.A. Mæland, T.E. Pettersen, R. Rongved and A.K. Topphol A290 (1990) 320

Physical properties of the TOF (time of flight) scintillation counters of DELPHI, Benlloch, J.M., M.V. Castillo, A. Ferrer, J. Fuster, E. Higón, A. Llopis, J. Salt, E. Sánchez, E. Sanchis, E. Silvestre and J. Cuevas A290 (1990) 327

Experimental determinaton of sampling fluctuations in uranium and lead hadronic calorimeters, Drews, G., M.A. Garcia, R. Klanner, U. Kötz, M. Krämer, J. Del Peso, E. Ros, F. Selonke, J. Straver, H. Tiecke and M. Tsirou A290 (1990) 335

Improving energy resolution of calorimeters using a covariance matrix approach, Kewley, D., G.C. Blazey, J. Chiu and T. Ferbel A290 (1990) 346

The limited streamer tubes of the SLD, Benvenuti, A.C., L. Piemontese, A. Calcaterra, R. De Sangro, P. De Simone, I. Peruzzi, M. Piccolo, P.N. Burrows, W. Busza, S.L. Cartwright, J.I. Friedman, S. Fuess, S. Gonzalez, T. Hansl-Kozanecka, H.W. Kendall, A. Lath, T. Lyons, L.S. Osborne, L. Rosenson, U. Schneekloth, F.E. Taylor, R. Verdier, D. Williams, J.M. Yamartino, N. Bacchetta, D. Bisello, A. Castro, M. Loreti, L. Pescara, J. Wyss, B. Alpat, R. Battiston, G.M. Bilei, R. Dell'Orso, G. Mantovani, M. Pauluzzi, L. Servoli, M. Carpinelli, R. Castaldi, C. Vannini, P.G. Verdini, B.L. Byers, D. Kharakh, R.L. Messner, R.W. Zdarko and J.R. Johnson A290 (1990) 353

Design and performance of a diffusion-suppressed streamer chamber, Beringer, R., A. Disco, J. Hissong, R. Majka, F.S. Rotondo, J. Sandweiss, A.J. Slaughter, E.J. Wolin and Z. Wu A290 (1990) 370

Lead fluoride: an ultra-compact Cherenkov radiator for EM calorimetry, Anderson, D.F., M. Kobayashi, C.L. Woody and Y. Yoshimura A290 (1990) 385
An improvement to the space resolution of charged tracks, Chen, T.-Y. and N.-G. Yao A290 (1990) 390
Momentum measurements of electrons in a heavy-liquid bubble chamber, Manly, S., C. Baltay and M. Kalelkar A290 (1990) 393
Measurements of discharge ion distribution around an anode wire of a gas counter, Urase, K., H. Ohgaki, Y. Uozumi, H. Ijiri, M. Matoba, T. Sakae and N. Koori A290 (1990) 401
Distribution of ion space charge in the volume of a multiwire proportional chamber at high counting rates, Dmitriev, G.D. and I.B. Frumkin A290 (1990) 409

Instruments and Methods for Nuclear Spectroscopy

The use of neutron intensity calibrated ^{9}Be(α, n) sources as 4438 keV gamma-ray reference standards, Croft, S. A281 (1989) 103
A NE213 liquid scintillator, neutron detector designed for lifetime measurements of very neutron-rich nuclei, Bazin, D., A.C. Mueller and W.-D. Schmidt-Ott A281 (1989) 117
Low-energy nuclear radiation detection with a silicon photodiode, Yamamoto, H., S. Hatakeyama, T. Norimura and T. Tsuchiya A281 (1989) 128
A 4π light charged particle multidetector for reaction channel identification and discrimination, Azaiez, F., M.M. Aleonard, S. Andriamonje, J.F. Chemin, G. Claverie, J.N. Scheurer, F. Beck and G. Costa A281 (1989) 133
Investigation of the performance of CsI(Tl) for charged particle identification by pulse-shape analysis, Benrachi, F., B. Chambon, B. Cheynis, D. Drain, C. Pastor, D. Seghier, K. Zaid, A. Giorni, D. Heuer, A. Llères, C. Morand, P. Stassi and J.B. Viano A281 (1989) 137
A modified position sensitive proportional counter with improved particle identification capability, Lamm, L.O., S.M. Graff, M. Wiescher, J. Görres, C.P. Browne and U. Giesen A281 (1989) 143
The determination of electron momentum densities by inelastic scattering gamma ray–electron coincidence measurements: the (γ, eγ) experiment, Rollason, A.J., F. Bell and J.R. Schneider A281 (1989) 147
A test of new position sensitive detectors for SPEG (*Letter to the Editor*), Villari, A.C.C., W. Mittig, Y. Blumenfeld, A. Gillibert, P. Gangnant and L. Garreau A281 (1989) 240
Comparison of properties of large BaF_2 and BaF_2 + DPS scintillators, Kozma, P. and V.V. Yanovsky A281 (1989) 346
Gamma calibration of organic scintillators, Cherubini, R., G. Moschini, R. Nino, R. Policroniades and A. Varela A281 (1989) 349
Efficiency calibration of a cylindrical BC418 neutron detector at neutron energies between 30 and 200 MeV, Amian, W.B., M.M. Meier, R.C. Byrd, C.A. Goulding and C.E. Moss A281 (1989) 353
A broad-range detector system with large geometric efficiency for heavy-ion reaction studies, Potvin, L., G.C. Ball, W.G. Davies, J.S. Forster, E. Hagberg, D. Horn, M.A. Lone, M. Montaigne, G.A. Sims, M.G. Steer, R.J. Toone, R. Roy, C. St-Pierre and A. Galindo-Uribarri A281 (1989) 359
A calorimeter for relativistic heavy-ion experiments, Beavis, D., R.R. Betts, M.A. Bloomer, Y.Y. Chu, J.B. Cumming, E. Duek, P.E. Haustein, I. Juricic, S. Katcoff and S.B. Kaufman A281 (1989) 367
The energy resolution of p^+nn^+ Si planar diodes with partially contacted p^+ emitters, Rawlings, K.J. and M.O. Deighton A281 (1989) 373
Performance of the heavy-ion magnetic spectrograph "ENMA" on the kinematic correction, Sugiyama, Y., Y. Tomita, H. Ikezoe, E. Takekoshi, K. Ideno and N. Shikazono A281 (1989) 512
Composite charged particle detectors with logarithmic energy response for large dynamic range energy measurements, Fowler, M.M., T.C. Sangster, M.L. Begemann-Blaich, T. Blaich, J.A. Boissevain, H.C. Britt, Y.D. Chan, A. Dacal, D.J. Fields, Z. Fraenkel, A. Gavron, A. Harmon, B.V. Jacak, R.G. Lanier, P.S. Lysaght, G. Mamane, D.J. Massoletti, M.N. Namboodiri, J. Pouliot, R.G. Stokstad, M.L. Webb and J.B. Wilhelmy A281 (1989) 517
The particle detector array AMORPHA, AMORPHA Collaboration, D. Drain, A. Giorni, D. Hilscher, C. Ristori, J. Alarja, G. Barbier, R. Bertholet, R. Billerey, B. Chambon, B. Cheynis, J. Crançon, A. Dauchy, P. Désesquelles, A. Fontenille, L. Guyon, D. Heuer, A. Llères, M. Maurel, E. Monnand, C. Morand, H. Nifenecker, C. Pastor, J. Pouxe, H. Rossner, J. Saint-Martin, F. Schussler, P. Stassi, M. Tournier and J.B. Viano A281 (1989) 528
Efficiency and delay of the fission ion guide for on-line mass separation, Taskinen, P., H. Penttilä, J. Äystö, P. Dendooven, P. Jauho, A. Jokinen and M. Yoshii A281 (1989) 539
A resonance ionization mass spectrometer as an analytical instrument for trace analysis, Ruster, W., F. Ames, H.-J. Kluge, E.-W. Otten, D. Rehklau, F. Scheerer, G. Herrmann, C. Mühleck, J. Riegel, H. Rimke, P. Spattelberger and N. Trautmann A281 (1989) 547
A recoil spectrometer for photoneutron knockout experiments, Beise, E.J., M. Garçon, S. Gilad, S. Høibråten, L.D. Pham, R.P. Redwine, G. Van der Steenhoven, C.F. Williamson and S.A. Wood A281 (1989) 559
Gamma-ray energy measurement for ^{177m}Lu with a precision pulser, Matsui, S., H. Inoue and Y. Yoshizawa . . A281 (1989) 568
NE110 scintillator response to 10–100 MeV carbon ions, Dickens, J.K. and J.W. McConnell A281 (1989) 577

The $^{1}H(^{11}B,n)^{11}C$ reaction as a practical low background monoenergetic neutron source in the 10 MeV region, Chiba, S., M. Mizumoto, K. Hasegawa, Y. Yamanouti, M. Sugimoto, Y. Watanabe and M. Drosg A281 (1989) 581
Contribution of inelastic scattering to the vanadium differential scattering cross section; implications for the calibration of neutron spectrometers (*Letter to the Editor*), Mayers, J. A281 (1989) 654
A broad range spectrometer PIK for medium-energy meson spectroscopy, Akei, M., J.F. Amann, J. Chiba, H. Ejiri, M. Fukuda, T. Fukuda, O. Hashimoto, S. Homma, T. Irie, Y. Iseki, A. Kashitani, S. Kato, K. Kimura, T. Kishimoto, K. Maeda, Y. Matsuyama, J.A. McGill, T. Nagae, H. Nagasawa, C. Nagoshi, M. Nomachi, H. Noumi, H. Ohsumi, K. Okuda, K. Omata, H. Sano, O. Sasaki, T. Shibata, F. Soga, F. Takeuchi, H.A. Thiessen, S. Toyama, K.H. Tanaka, Y. Yamanoi and N. Yoshikawa A283 (1989) 46
A new display type hemispherical mirror analyzer for photoelectron spectroscopy, Hu, X.M. and G.V. Marr .. A283 (1989) 57
Rise time spectroscopy of nuclear radiations in a CsI(Tl) scintillator, Harihar, P., A.R. Knudson, W.J. Stapor and A.B. Campbell A283 (1989) 62
A new approach to magnetic spectrometers, Betker, A.C. and C.A. Gagliardi A283 (1989) 67

Proceedings of the International Workshop on Fundamental Physics with Slow Neutrons (Grenoble, France, March 8–11, 1989)

Section I. New phenomena beyond the standard model

Neutron–antineutron oscillation in grand unified theories: an update, Mohapatra, R.N. A284 (1989) 1
Free neutron oscillations, Puglierin, G. A284 (1989) 9
Neutron–antineutron oscillations in nuclei, Dover, C.B., A. Gal and J.M. Richard A284 (1989) 13
From ultracold antineutrons to neutron spin echo – The bootstrap offers significant gains in sensitivity, Golub, R., H. Yoshiki and R. Gähler A284 (1989) 16
The dressed neutron–antineutron system, Dubbers, D. A284 (1989) 22
Neutrino oscillation experiments at reactors, Avenier, M. A284 (1989) 29
Theory of the neutron electric dipole moment, Ellis, J. A284 (1989) 33
The search for the electric dipole moment of the neutron at the ILL, Thompson, D. A284 (1989) 40
The electric dipole moments of atoms: limits on P, T violating interactions within the atom, Lamoreaux, S.K. .. A284 (1989) 43
Search for short-lived axions, Freedman, S. A284 (1989) 50
Search for resonant Bhabha scattering at MeV energies, Tsertos, H. A284 (1989) 54
The equivalence of the gravitational and interial mass of the neutron, Schmiedmayer, J. A284 (1989) 59

Section II. Weak interaction I: neutron–nucleus

Symmetry tests in slow neutron interactions, Kabir, P.K. A284 (1989) 63
Parity violation in reactor neutron transmission experiments, Heckel, B. A284 (1989) 66
The violation of spatial parity in nuclear reactions with polarized neutrons, Krupchitsky, P.A. A284 (1989) 71
Investigation of the P-odd asymmetry in the resonance scattering of neutron capture gamma-rays, Beda, A.G., S.I. Burov, L.N. Bondarenko, G.V. Danilyan, P. Geltenbort, F. Gönnewein, V.L. Kuznetsov, A.N. Martemyanov, Yu.A. Mostovoii and K. Schreckenbach A284 (1989) 77
Investigation of parity violation in the $^{207}Pb(\vec{n}, \gamma)^{208}Pb$ reaction, Abov, Yu.G., O.N. Ermakov, I.L. Karpikhin, P.A. Krupchitsky, G.A. Lobov, V.F. Perepelitsa, V.I. Petrushin and A.N. Starodumov A284 (1989) 80

Section III. Weak interaction II: neutron decay

Cosmology and the neutron lifetime, Schramm, D.N. and L. Kawano A284 (1989) 84
Neutron beta-decay: modern experimental results and comparison with theory, Erozolimskii, B.G. A284 (1989) 89
Neutron decay, semileptonic hyperon decays and the Cabibbo model, Siebert, H.-W. A284 (1989) 94
Preliminary results of neutron lifetime measurements with gravitational UCN trap, Kharitonov, A.G., V.V. Nesvizhevsky, A.P. Serebrov, R.R. Taldaev, V.E. Varlamov, A.V. Vasilyev, V.P. Alfimenkov, V.I. Lushchikov, V.N. Shvetsov and A.V. Strelkov A284 (1989) 98
Measurement of the neutron lifetime by magnetic storage of free neutrons, Anton, F., W. Paul, W. Mampe, L. Paul and S. Paul A284 (1989) 101
Neutron lifetime determination by ultracold neutron storage, Morozov, V.I. A284 (1989) 108
Neutron lifetime from a liquid walled bottle, Mampe, W., P. Ageron, J.C. Bates, J.M. Pendlebury and A. Steyerl A284 (1989) 111
Determination of the neutron lifetime by counting trapped protons, Byrne, J., P.G. Dawber, J.A. Spain, M.S. Dewey, D.M. Gilliam, G.L. Greene, G.P. Lamaze, A.P. Williams, J. Pauwels, R. Eykens, J. VanGestel, A. Lamberty and R.D. Scott A284 (1989) 116
Neutron decay measurements with a helium-filled time projection chamber, Schreckenbach, K., G. Azuelos, P. Grivot, R. Kossakowski and P. Liaud A284 (1989) 120
Measurement of neutron-decay parameters with PERKEO, Döhner, J., H. Abele, I. Reichert, H. Borel, D. Dubbers, S.J. Freedman and J. Last A284 (1989) 123

Pecularities in experiments searching for T-invariance violation in the free neutron decay, Vorobiov, A.V., B.G. Erozolimskii, I.A. Kuznetsov and Yu.A. Mostovoii A284 (1989) 127

Section IV. Electromagnetic interaction

Measurement of the charge of the neutron, Baumann, J., R. Gähler, A.I. Ioffe, J. Kalus and W. Mampe A284 (1989) 130
On the study of electromagnetic properties of the neutron at JINR Dubna, Alexandrov, Yu.A. A284 (1989) 134
The electric polarizability of the neutron, Schmiedmayer, J., H. Rauch and P. Riehs A284 (1989) 137
Precision measurement of h/m_n, Krüger, E., W. Nistler and W. Weirauch A284 (1989) 143
Neutron optical spin–orbit rotation in dynamical diffaction, Forte, M. and C.M.E. Zeyen A284 (1989) 147
Fundamental physics using ultrahigh resolution gamma spectroscopy, Dewey, M.S., E.G. Kessler Jr, G.L. Greene, R.D. Deslattes, H. Börner and J. Jolie A284 (1989) 151

Section V. Neutron optics and quantum mechanics

Wave–particle properties measured by neutron interferometry, Rauch, H. A284 (1989) 156
Optics of very slow neutrons and neutron microscopy, Frank, A.I. A284 (1989) 161
The new very-cold-neutron optics facility at ILL, Eder, K., M. Gruber, A. Zeilinger, R. Gähler, W. Mampe and W. Drexel A284 (1989) 171
Diffraction-grating interferometer for very cold neutrons: questions of adjustment, Drabkin, G., A. Ioffe, S. Kirsanov, V. Zabiyakin and M. Bedrizova A284 (1989) 176
Fizeau-type experiments with neutrons, Cimmino, A., W.A. Hamilton, A.G. Klain, G.I. Opat, M. Arif, R. Clothier, H. Kaiser and S.A. Werner A284 (1989) 179
Observation of a strong interplanar electric field in a dynamical diffraction of polarized neutrons, Alexeev, V.L., V.V. Fedorov, E.G. Lapin, E.K. Leushkin, V.L. Rumiantsev, O.I. Sumbaev and V.V. Voronin A284 (1989) 181
Neutron diffraction on a grating with monochromatic and polychromatic neutrons, Baumann, J., J. Kalus and W. Mampe A284 (1989) 184
Neutrons with $\langle \sigma_z \rangle \geqslant 100$ and "polarization amplification", Golub, R. and R. Gähler A284 (1989) 188
Neutron interferometric observation of the topological Aharonov–Casher effect, Kaiser, H., M. Arif, S.A. Werner, R. Clothier, A. Cimmino, A.G. Klein and G.I. Opat A284 (1989) 190
Demonstrations of Berry's phase using polarised neutrons, Richardson, D.J. and S.K. Lamoreaux A284 (1989) 192

Section VI. Neutron sources and detectors

Cold neutron sources at ILL, Ageron, P. A284 (1989) 197
Sources of ultracold neutrons, Steyerl, A. and S.S. Malik A284 (1989) 200
Recent progress in neutron polarizers, Schaerpf, O. and N. Stuesser A284 (1989) 208
High flux reactor PIK and the associated research program, Serebrov, A.P. A284 (1989) 212
Facilities for fundamental physics research at the NIST cold neutron facility, Arif, M., R.D. Deslattes, M.S. Dewey, G.L. Greene and I.G. Schroder A284 (1989) 216
Absolute neutron counting based on B-10 alpha–gamma coincidence methods, Gilliam, D.M., G.L. Greene and G.P. Lamaze A284 (1989) 220
A new position sensitive proportional counter with microstrip anode for neutron detection, Oed, A., P. Convert, M. Berneron, H. Junk, C. Budtz-Jørgensen, M.M. Madsen, P. Jonasson and H.W. Schnopper A284 (1989) 223

Section VII. Summary

Fundamental phyiscs with slow neutrons, Pendlebury, J.M. A284 (1989) 227

A measurement of the neutrino flux from a stopped-pion source, Allen, R.C., H.H. Chen, M.E. Potter, R.L. Burman, J.B. Donahue, D.A. Krakauer, R.L. Talaga, E.S. Smith and A.C. Dodd A284 (1989) 347
The $^{3}H(d,n)^{4}He$ reaction: a possible source of intermediate energy neutrons, Gagliardi, C.A. and A.C. Betker . A284 (1989) 356
Deposition and characterization of ^{22}Na sources for use with monoenergetic positron beams, Huomo, H., R. Jones, J. Hurst, A. Vehanen, J. Throwe, S.G. Usmar and K.G. Lynn A284 (1989) 359
A neutron coincidence spectrometer, Czirr, J.B. and G.L. Jensen A284 (1989) 365
Current mode operated scintillation detector with a new dual channel gain stabilization system, Janca, R. and J.W. Klein A284 (1989) 370
Gas pressure and reduced electric field effects in gas scintillation proportional counters, Smith, A., F. Favata and T.Z. Kowalski A284 (1989) 375
A detector system for heavy projectile fragments in the few GeV/nucleon energy region, Kobayashi, T., C.E. Tull, D.L. Olson, W.F.J. Müller, J.P. Dufour, J.C. Young, F.S. Bieser and T.J.M. Symons A284 (1989) 381
X-ray and gamma-ray intensity measurements in ^{131}I, ^{166}Ho, ^{198}Au and ^{199}Au decays, Chand, B., J. Goswamy, D. Mehta, N. Singh and P.N. Trehan A284 (1989) 393

Performances of large volume p-type HPGe detectors, Bellia, G., A. Del Zoppo, C. Agodi, R. Alba, R. Coniglione, E. Migneco, G. Russo and P. Sapienza A284 (1989) 399
A thin-wall, low-Z pressure vessel, Jenkins, D.A. and C.L. Chandler A284 (1989) 405
A deuteron polarimeter for polarization transfer experiments, Abbott, D.J., H.J. Karwowski, T.B. Clegg and E.J. Ludwig A284 (1989) 409
A "TDPAC-camera", Butz, T., S. Saibene, Th. Fraenzke and M. Weber A284 (1989) 417
Absolute analyzing power calibration in spin-1/2 from spin-0 scattering (*Letter to the Editor*), Hinterberger, F., U. Lahr, B. v. Przewoski and R. Henneck A284 (1989) 523
Particle identification of heavy ions with large silicon detectors (*Letter to the Editor*), Motobayashi, T., M. Louvel, S.M. Lee and S. Jeong A284 (1989) 526
International Committee for Radionuclide Metrology (*Letter to the Editor*), Christmas, P. A284 (1989) 529
Development of an isotropic velocity distribution in stored ultracold neutrons and its effect on the measurement of neutron lifetime: A computational study, Tervisidis, F., N. Tsagas and J.C. Bates A285 (1989) 431
Response of BaF_2, BaF_2-plastic, and BGO scintillators to neutrons with energies between 15 and 45 MeV, Kubota, S., T. Motobayashi, M. Ogiwara, H. Murakami, Y. Ando, J. Ruan(Gen), S. Shirato and T. Murakami A285 (1989) 436
MARS: A momentum achromat recoil spectrometer, Tribble, R.E., R.H. Burch and C.A. Gagliardi A285 (1989) 441
The LEGS electron spectrometer for tagging backscattered photons, Thorn, C.E., G. Giordano, O.C. Kistner, G. Matone, A.M. Sandorfi, C. Schaerf and C.S. Whisnant A285 (1989) 447
PIN-diodes for electron detection, Schmidt-Ott, W.-D., U. Bosch and Th. Möhlenkamp A285 (1989) 459
Pulse shape discrimination with a large NaI crystal, Doll, P., G. Fink, M. Haupenthal, R.W. Finlay, S. Hauber, H.O. Klages, H. Schieler, F. Smend and G.-D. Wicke A285 (1989) 464
First application of the momentum-loss achromat to the isotopic separation of relativistic projectile fragments, Blank, B., J.-J. Gaimard, H. Geissel, G. Münzenberg, K.-H. Schmidt, H. Stelzer, K. Sümmerer, H.-G. Clerc, E. Hanelt, B. Voss, D. Bazin, R. Del Moral, J.-P. Dufour, A. Fleury and M.S. Pravikoff A286 (1989) 160
Response of BGO and CsI(Tl) scintillators to heavy ions, Valtonen, E., J. Peltonen and J.J. Torsti A286 (1989) 169
Position and angle resolving light ion detector for the Q3D magnetic spectrograph, Wessner, H., R. Hertenberger, H. Kader and G. Graw A286 (1989) 175
Computed tomography of scintillators with muons: understanding the response to high energy gamma rays, Dowell, D.H., A.M. Sandorfi, A.Q.R. Baron, B.J. Fineman, O.C. Kistner, G. Matone, C.E. Thorn and R.M. Sealock A286 (1989) 183
A fourfold Bhabha/Møller polarimeter for positrons/electrons, Van Klinken, J., W.Z. Venema and V.A. Wichers A286 (1989) 202
The anticounter for the KARMEN experiment, Bodmann, B., J. Böttcher, F. Burtak, E. Finckh, A. Glombik, B. Hülsmann, W. Kretschmer, F. Schilling, K. Stauber, R. Stegen, D. Vötisch, E. Zell, H. Gemmeke, R. Maschuw, B. Zeitnitz and J. Edgington A286 (1989) 214
Pulse height defect in an ionization chamber investigated by cold fission measurements, Simon, G., J. Trochon, F. Brisard and G. Signarbieux A286 (1989) 220
Response of a prototype module of a neutron-multiplicity calorimeter, Pantaleo, A., L. Fiore, G. Guarino, V. Paticchio, G. D'Erasmo, E.M. Fiore, N. Colonna, G.J. Wozniak and L.G. Moretto A286 (1989) 230
Position resolution measurements for position-sensitive silicon detectors by use of circular apertures (*Letter to the Editor*), Caussyn, D.D., G.L. Gentry, A. Toppins and N.R. Fletcher A286 (1989) 348

Proceedings of the ICRM Symposium on Nuclear Decay Data: Spectrometric Methods, Measurements and Evaluations
(Braunschweig, FRG, June 6–8, 1989)

Section I. Detectors, spectrometric methods and spectral analysis

I(a). Detectors and activity measurements

Germanium radiation detector manufacturing: process and advances, Keyser, R.M. and T.W. Raudorf A286 (1989) 357
Enhancement of peak-to-total ratio in gamma-ray spectroscopy, Paulus, T.J. and R.M. Keyser A286 (1989) 364
KX–gamma coincidences in defined solid angles: a method for measuring the activity of electron-capture radionuclides (*abstract*), Konstantinov, A.A., T.E. Sazonova, S.V. Sepman and N.I. Karmalitsyn A286 (1989) 369
Determination of the activity concentration of a ^{125}I solution by X–(X, γ) coincidence counting and an efficiency extrapolation curve, Iwahara, A., M.H.H. Marechal, C.J. Da Silva and R. Poledna A286 (1989) 370
A direct measurement of ^{228}Th activity by alpha–beta coincidence counting, Bland, C.J. and A. Martin Sanchez A286 (1989) 375
A new method for the detection and visualization of nuclear levels, Diallo, O., G. Mouze, P. Bechlitch, J.F. Comanducci, P. Abela and C. Ythier A286 (1989) 379

Backscattering and self-absorption corrections in the measurement of alpha-emitters in 2π geometry, Ferrero, J.L., C. Roldán, M.L. Aceña and E. García-Toraño A286 (1989) 384
Elemental assay of materials without standards using charged-particle activation and gamma-ray spectroscopy, Cincu, Em. A286 (1989) 388
Effect of atmospheric pressure variations on thermal power measurements with radiometric microcalorimeters, Genka, T. and S. Iwamoto A286 (1989) 395

I(b). Spectroscopic and related data analysis

Spline techniques for fitting efficiency curves in gamma-ray spectrometry, Janssen, H. A286 (1989) 398
Deconvolution of gamma-ray peak doublets as a function of peak separation and relative amplitude, Keyser, R.M. A286 (1989) 403
Using standard spectra to develop and test gamma-ray analysis software, Keyser, R.M. A286 (1989) 409
Precise determination of gamma-ray peak areas, Siegert, H. and H. Janssen A286 (1989) 415
A comparison of detection-limit computations for four commercial gamma-ray analysis programs, Cline, J.E. . . A286 (1989) 421
Synthetic doublets from ^{234}U alpha-particle spectra for assessing accuracy in peak fitting, Bortels, G., D. Mouchel, E. Garcia-Toraño and M.L. Aceña A286 (1989) 429
Interactive alpha spectroscopy on personal computers, Koskelo, M.J. A286 (1989) 433
PC-based high-precision nuclear spectrometry, Westmeier, W. and J. Van Aarle A286 (1989) 439
GAMCAT – A personal computer database on alpha particles and gamma rays from radioactive decay, Tepel, J.W. and H.-W. Müller A286 (1989) 443

Section II. Source preparation and calibration standards

Recent developments in the preparation of radioactive sources at LMRI, Blanchis, P., J. Page, J. Bouchard, M. Vandevyver and A. Ruaudel-Teixier A286 (1989) 447
Alpha-source preparation by electrodeposition, Da Cruz, P.A.L. and R. Poledna A286 (1989) 453
Measurement of the gamma-ray emission probabilities of ^{75}Se, Andai, A., T. Barta and L. Szűcs A286 (1989) 457
Measurements of the gamma-ray emission probabilities of ^{75}Se, Lin, Wang Xin and Wang Yuanda A286 (1989) 460
ICRM intercomparison of the relative gamma-ray emission probabilities of ^{75}Se, Jedlovszky, R., L. Szűcs and Á. Szörényi A286 (1989) 462
X- and gamma-ray standards for detector efficiency calibration, Nichols, A.L. A286 (1989) 467
Efficiency calibration of Si(Li) detectors with X-ray reference sources at energies between 1 and 5 keV, Denecke, B., G. Grosse, U. Wätjen, W. Bambynek and C. Ballaux A286 (1989) 474
Needle beam studies of HPGe detectors for photon efficiency calibration from 6 to 25 keV, Burns, P.A., L.J. Martin and J.R. Moroney A286 (1989) 480
Detector-efficiency calibration for high-energy gamma-rays, Zijderhand, F., F.P. Jansen, C. Alderliesten and C. Van der Leun A286 (1989) 490
Standardisation of ^{152}Eu by two-dimensional extrapolation, Miyahara, H., Y. Nozue, S. Kitaori and T. Watanabe A286 (1989) 497

Section III. Measurements of decay data

Near-optimum procedure for half-life measurement by high-resolution gamma-ray spectroscopy, Parker, J.L. . . A286 (1989) 502
A measurement of the half-life of ^{137}Cs, Martin, R.H. and J.G.V. Taylor A286 (1989) 507
Half-life determination of ^{125}I, De Felice, P., P. Ientile and C. Zicari A286 (1989) 514
The half-life of ^{125}I, Woods, M.J. and S.E.M. Lucas A286 (1989) 517
Precision measurement of the emission probability for the 1.52 MeV gamma ray of ^{42}K, Miyahara, H., S. Kitaori, Y. Nozue and T. Watanabe A286 (1989) 519
Photon emission probabilities of ^{44}Ti, ^{65}Zn, ^{88}Y, ^{89}Sr, ^{147}Pm, ^{204}Tl and ^{210}Pb, Schötzig, U. A286 (1989) 523
Gamma-ray emission probabilities in the decay of ^{65}Ni and ^{125}Sb, Longoria-Gandara, L., M.U. Rajput and T.D. Mac Mahon A286 (1989) 529
Measurements of ^{170}Tm photon and electron emission probabilities, Kempisty, T., K. Pochwalski, T. Radoszewski and T. Terlikowska-Drozdziel A286 (1989) 535
Photon emission probabilities of ^{201}Tl, Kawada, Y., Y. Hino and W. Gatot A286 (1989) 539
Measurement of the 46.5 keV gamma-ray emission probability of ^{210}Pb and its application as a standard for the calibration of ^{129}I monitors, Hino, Y. and Y. Kawada A286 (1989) 543
Gamma-ray emission probabilities of the daughters of ^{238}U, Scott, H.L. and K.W. Marlow A286 (1989) 549
Reconciliation of ^{237}Np decay scheme data, Lowles, I.M., T.D. Mac Mahon, M.F. Banham, A.J. Fudge and R.A.P. Wiltshire A286 (1989) 556
The internal conversion spectrum following ^{244}Cm alpha-particle decay, Pearcey, J., S.A. Woods and P. Christmas A286 (1989) 563

Section IV. Evaluation of decay data

Objective data evaluation procedures, Gray, P.W., T.D. Mac Mahon and M.U. Rajput A286 (1989) 569
The half-life of ^{137}Cs – A critical review, Woods, M.J. A286 (1989) 576
Analysis of α-, β-, and γ-ray emission probabilities, Firestone, R.B. A286 (1989) 584
Evaluation of non-neutron nuclear data for the uranium-238 decay chain, Coursol, N., F. Lagoutine and B. Duchemin A286 (1989) 589
The evaluated nuclear structure data file: philosophy, content, and uses, Burrows, T.W. A286 (1989) 595
Comparison of experimental and theoretical high multipole-order internal conversion coefficients, Németh, Zs. and Á. Veres A286 (1989) 601

An intense 14 MeV neutron source, Su Tongling, Sun Biehe, Yang Baotai, Piao Yubo, Shui Yongqing, Chen Kefan, Wang Xuezhi, Yang Cheng, Niu Zhanqi, Liu Yanton, Pan Minshen, Hong Zhongti and Chen Qin . . A287 (1990) 452
Facilities for neutron induced experiments at the Tohoku University cyclotron, Niizeki, T., H. Orihara, K. Ishii, K. Maeda, M. Kabasawa, Y. Takahashi and K. Miura A287 (1990) 455
Re-estimation of the thermal neutron capture cross section of ^{14}N, Islam, M.A., T.J. Kennett and W.V. Prestwich A287 (1990) 460
On solenoid design for neutron spin echo spectrometers, Monkenbusch, M. A287 (1990) 465
Identification of projectile fragments using position sensitive silicon detectors, Liu, W.P., T. Kubo, H. Kumagai, T. Nakagawa, T. Suzuki, M. Yanokura, I. Tanihata, T. Ito, T. Kashigawi, J. Kikuchi, H. Yamaguchi, T. Doke, H. Murakami, T. Yanagimachi and N. Hasebe A287 (1990) 476
A parallel plate avalanche detector system for the localization of relativistic heavy ions, Burgei, R., M. Demoulins, C. Cavata, H. Fanet, J. Gosset, M.-C. Lemaire, A. Le Merdy, D. L'Hôte, B. Lucas, J.-C. Lugol, J. Poitou and O. Valette A287 (1990) 481
Lifetime measurements with a new doppler shift technique, Naviliat-Cuncic, O., M. Loiselet, Z. Seres and J. Vervier A287 (1990) 487
A focal-plane counter equipped with a large silicon detector, Kato, S., S. Kubono, T. Miyachi, S. Ohkawa, Y. Fuchi, M.H. Tanaka and M. Yasue A287 (1990) 499
Comparative studies of time differential and integral directional correlation methods on delayed γ-ray cascades, Mohsen, M. and F. Pleiter A287 (1990) 506
Quality tests of CsI(Tl) scintillators (*Letter to the Editor*), Gong, W.G., N. Carlin, C.K. Gelbke and R. Dayton . A287 (1990) 639
Aspects of kinematical coincidence measurements of excitation energy division in damped reactions, Tõke, J., W.U. Schröder and J.R. Huizenga A288 (1990) 406
A heavy-ion identification system for the detection of rare events, Overbeck, M., A. Breskin, M. Brügger, R. Chechik, Z. Fraenkel, G. Herrmann, K. Lützenkirchen, S. Polikanov, N. Trautmann and Th. Wilpert A288 (1990) 413
A particle spectrometer for angular distribution measurements from (n, p) and (n, d) reactions at 22 MeV, McMurray, W.R., K. Bharuth-Ram and D.G. Aschman A288 (1990) 421
Contribution of photocathode nonuniformity to energy resolution in NaI(Tl) scintillation detectors, Fraser-Mitchell, J. and A.G. Wright A288 (1990) 429
The influence of inhomogeneities in materials properties in silicon radiation detectors, Henari, F.Z., E.C. Finch and C.F.G. Delaney A288 (1990) 439
Determination of the light response of BC-404 plastic scintillator for ^{3}He and ^{4}He with energies between 3 and 13 MeV, Saraf, S.K., N. Al-Niemi, C.E. Brient, S.M. Grimes and R.S. Pedroni A288 (1990) 451
HYSTRIX – A 4π plastic phoswhich array providing on-line channel selection for in-beam γ-ray spectroscopy, Lidén, F. A288 (1990) 455
Manufacturing avalanche diodes for detection of low energy gamma- and X-rays, Sueva, D., V. Spassov, N. Chikov and E.I. Vapirev A288 (1990) 460
Neutron polarization with a polarized ^{3}He spin filter, Coulter, K.P., T.E. Chupp, A.B. McDonald, C.D. Bowman, J.D. Bowman, J.J. Szymanski, V. Yuan, G.D. Cates, D.R. Benton and E.D. Earle A288 (1990) 463
High efficiency moderator for pulsed neutron diffraction, Mayer, R.E., J.R. Granada, V.H. Gillette and J. Dawidowski A288 (1990) 467
A versatile double-axis multicounter neutron powder diffractometer, Schefer, J., P. Fischer, H. Heer, A. Isacson, M. Koch and R. Thut A288 (1990) 477
Investigation of the crystal scintillations in the VUV region (*Letter to the Editor*), Buzulutskov, A.F., L.K. Turchanovich, V.G. Vasilchenko, Y.L. Jansons, Z.A. Rachko, V.J. Valbis and N.M. Khaidukov A288 (1990) 659
Response of BaF_2 detectors to photons of 3–50 MeV energy, Matulewicz, T., E. Grosse, H. Emling, R. Freifelder, H. Grein, W. Henning, N. Herrmann, R. Holzmann, R. Kulessa, R.S. Simon, H.J. Wollersheim, B. Schoch, J. Vogt, M. Wilhelm, J.V. Kratz, R. Schmidt and R.V.F. Janssens A289 (1990) 194
Study of the ion-optical properties of the mass spectrometer LIDIA, Bogdanov, D.D., A.M. Rodin, S.I. Sidorchuk, S.V. Stepantsov, G.M. Ter-Akopian and V.A. Timakov A289 (1990) 205
A compact high-efficiency ^{8}Be detector, Allcock, S.C., P.R. Keeling, W.D.M. Rae, A.E. Smith, S.J. Bennett, M. Freer, B.R. Fulton, R.D. Page and P.J. Woods A289 (1990) 213

Time-resolved triple-axis spectroscopy – A new method for real-time neutron scattering, Eckold, G. A289 (1990) 221
Development of chemically-milled gridded avalanche counters for use in a time-of-flight telescope, Smith, A.E., P.M. Evans, C.N. Pass, C.W. Band, N. Poffè, L. Stuttgé and R.R. Betts A289 (1990) 231
Liquid xenon as a detector medium, Incicchitti, A., P. Belli and M. Scafi A289 (1990) 236
A gas-filled UV-photon detector with CsI photocathode for the detection of Xe light (*Letter to the Editor*), Dangendorf, V., A. Breskin, R. Chechik and H. Schmidt-Böcking A289 (1990) 322
Timing properties of a new type time pick-up detector, Nakagawa, T., I. Tanihata and K. Yuasa-Nakagawa ... A290 (1990) 136
A neutron detector for use in strong gamma backgrounds, Gavron, A., R.C. Byrd, W.C. Sailor and Y. Yariv ... A290 (1990) 139
A new method of adjustment of a diffraction grating interferometer for very cold neutrons (*Letter to the Editor*), Ioffe, A.I. A290 (1990) 257
Growth of Si_9Ge_1 single crystals and their application in high-resolution neutron spectroscopy, Magerl, A. and C. Holm A290 (1990) 414
Double-crystal diffractometer study of thermal neutron specular reflection, Podurets, K.M., S.Sh. Shilshtein and F. Eichhorn A290 (1990) 419
Techniques for vector analyzing power measurements of the $^2H(\vec{n}, np)n$ breakup reaction at low energies, Howell, C.R., W. Tornow, H.G. Pfützner, A. Li, M.L. Roberts, K. Murphy, P.D. Felsher, G.J. Weisel, A. Naqvi, R.L. Walter, J.M. Lambert, P.A. Treado and I. Šlaus A290 (1990) 424
Coincidence summing in gamma-ray spectroscopy, Semkow, T.M., G. Mehmood, P.P. Parekh and M. Virgil ... A290 (1990) 437

Computer Automated Measurement and Control

Parallel processing of Monte Carlo simulations using a transputer array, Gorrod, M.J., M.J. Coe and M. Yearworth A281 (1989) 156
A drift chamber readout system in FASTBUS with a high-speed link to CAMAC and a wire count rate monitor, Hamann, N., G. Braun, J. Dittmayer and H.-J. Urban A281 (1989) 379
A microcomputer based data acquisition system for the KGF nucleon decay experiment, Adarkar, H., S.R. Dugad, S.D. Kalmani, M.R. Krishnaswamy, J.D. Kulkarni, M.G.K. Menon, N.K. Mondal, P.S. Murty, P. Nagaraj, V.S. Narasimham, B. Satyanarayana, Y. Hayashi, N. Ito, S. Kawakami, T. Nakamura, K. Tanaka and S. Miyake A284 (1989) 422
Multiprocessor data acquisition for NordBall, Jerrestam, D., A. Forycki, A. Holm, P. Høy-Christensen and T. Jian Shen A285 (1989) 469
Data acquisition system of a time-of-flight analyzer for use in a multi-detector assembly for neutron scattering experiments, Ono, M., S. Tasaki and S. Okamoto A285 (1989) 477
Zero-suppressed DMA for multiparameter data acquisition using CAMAC, Roy, A., A. Bandyopadhyay, S. Bhattacharya and S.K. De A286 (1989) 235
A hardware readout system for a curved one dimensional position sensitive proportional counter. I. Electronics, Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander, R. Kreuger and G.W. Sloof A288 (1990) 486
A hardware readout system for a curved one dimensional position sensitive proportional counter. II. Software correction of recorded spectra, Duijn, J.H., C.W.E. Van Eijk, R.W. Hollander, R. Kreuger and G.W. Sloof . A288 (1990) 493
Automated analysis of CCD recorded nuclear collisions in a streamer chamber, Krofcheck, D., G.M. Crawley, C. Djalali, S. Howden, C.A. Ogilvie, A. Vander Molen, G.D. Westfall, W.K. Wilson and R.S. Tickle A288 (1990) 497
Fine-grain parallel computer architectures in future triggers, Lone, S., R.K. Bock, Y. Ermolin, W. Krischer, C. Ljuslin, K. Zografos and A. Sandoval A288 (1990) 507
Automatisation d'une source d'ions de type SIRE, Coste, Ph., J. Aubert, J.P. Gilles et C. Lejeune A288 (1990) 517
An interrupt-driven data collection system for MS-DOS personal computers, Riley, S.P. A288 (1990) 525
High modularity fast charge–time digitizer in neutrino burst detection, Bigongiari, A., W. Fulgione, D. Passuello, O. Saavedra and G.C. Trinchero A288 (1990) 529
A time-of-flight spectroscopy system based on digital signal processing techniques, Correia, C.M.B.A. and J.P.P. Domingues A289 (1990) 243
A portable data acquisition system for detector development, test and calibration, Finocchiaro, P. A289 (1990) 247
A versatile data acquisition system based on VME/VSB for SR experiments, Koike, M., I.H. Suzuki and S. Nakae A290 (1990) 145
A new ADC circuit for nuclear spectroscopy based on digital signal processing techniques, Correia, C.M.B.A. and J.C. Martins A290 (1990) 445
A microcomputer-based multiparameter nuclear data acquisition system (*Letter to the Editor*), Schneider, M.B. and N.K. Gregory A290 (1990) 613

Nuclear Electronics

Suppression of the slow scintillation light output of BaF_2 crystals by La^{3+} doping, Schotanus, P., P. Dorenbos, C.W.E. Van Eijk and H.J. Lamfers A281 (1989) 162

Analysis of charge carrier losses in high resolution silicon detector for α-particles, Verbitskaya, E.M., V.K. Yeremin, N.B. Strokan, J. Von Borany and B. Schmidt A281 (1989) 167
Self-quenching streamers in Kr-mixtures (*Letter to the Editor*), Koori, N., M. Hashimoto, K. Yoshioka, I. Kumabe, H. Ohgaki and M. Matoba A281 (1989) 243
Gain stability of photomultipliers at high variable counting rates, Zhong, C., H. Zhengde and C. Qun A281 (1989) 384
Operation of limited streamer tubes with low hydrocarbon content gas mixtures using neon as noble gas, Antonelli, A., R. Baldini-Celio, G. Bencivenni, F. Bossi, P. Campana, G. Capon, V. Chiarella, B. D'Ettorre Piazzoli, G. Felici, P. Laurelli, G. Mannocchi, F. Murtas, G.P. Murtas, G. Nicoletti, P. Picchi and H. Rigoni A281 (1989) 589
Remarks on constant fraction discriminators applied for BaF_2 crystals (*Letter to the Editor*), Białkowski, J., M. Moszyński, D. Wolski and W. Klamra A281 (1989) 657

Nuclear Electronics – Compound Semiconductors for Room Temperature X-Ray and Nuclear Detectors

Mercuric iodide materials research: some recent developments and open problems, Piechotka, M. and E. Kaldis A283 (1989) 111
Preparation and evaluation of mercuric iodide for crystal growth, Skinner, N.L., C. Ortale, M.M. Schieber and L. Van den Berg A283 (1989) 119
Total organic carbon and gas chromatography–mass spectroscopy methods to determine total carbon and hydrocarbons in mercuric iodide single crystals, Steinberg, S., I. Kaplan, M. Schieber, C. Ortale, N. Skinner and L. Van den Berg A283 (1989) 123
A study of mercuric iodide near melting using differential scanning calorimetry, Raman spectroscopy and X-ray diffraction, Burger, A., S. Morgan, H. Jiang, E. Silberman, M. Schieber, L. Van den Berg, L. Keller and C.N.J. Wagner A283 (1989) 130
The vapour transport mechanism during crystallization of HgI_2 in closed ampoules, Conder, K. and J. Laskowski A283 (1989) 138
α-HgI_2 platelets technology, Przyłuski, J. and J. Laskowski A283 (1989) 144
Differential scanning calorimetry and scanning cathodoluminescence microscopy study of doped α-HgI_2 crystals, Nicolau, Y.F., M. Dupuy and Z. Kabsch A283 (1989) 149
Positron annihilation in α-HgI_2, Nicolau, Y.F., P. Moser and C. Corbel A283 (1989) 167
Correlation between mercuric iodide detector performance and crystalline perfection, Schieber, M., C. Ortale, L. Van den Berg, W. Schnepple, L. Keller, C.N.J. Wagner, W. Yelon, F. Ross, G. Georgeson and F. Milstein . A283 (1989) 172
Optical detection of impurities and defects in detector-grade mercuric iodide, James, R.B., D.K. Ottesen, D. Wong, T.E. Schlesinger, W.F. Schnepple, C. Ortale and L. Van den Berg A283 (1989) 188
Rutherford backscattering and Auger spectroscopy of mercuric iodide detectors, Felter, T.E., R.H. Stulen, W.F. Schnepple, C. Ortale and L. Van den Berg A283 (1989) 195
$I(t)$, $I(V)$ and surface effect studies of vapor grown and solution grown HgI_2 detectors, Mellet, J. and A. Friant A283 (1989) 199
Advances in mercuric iodide X-ray detectors and low noise preamplification systems, Iwanczyk, J.S. A283 (1989) 208
Developments in mercuric iodide gamma ray imaging, Patt, B.E., A.G. Beyerle, R.C. Dolin and C. Ortale A283 (1989) 215
Pulse filtering techniques for mercuric iodide gamma ray detectors, Gerrish, V.M. and A.G. Beyerle A283 (1989) 220
HgI_2 detectors for Pu contamination monitoring and radiological protection measurements, Friant, A., J. Mellet, G. Barrandon and E. Csakvary A283 (1989) 227
The photocapacitance of the HgI_2/electrolyte system, Burger, A., W. Shi, E. Silberman, L. Franks and W.F. Schnepple A283 (1989) 232
Comparison of transparent conducting electrodes on mercuric iodide photocells, Markakis, J.M. and A.Y. Cheng A283 (1989) 236
Optoelectronic switches on the basis of mercuric iodide, Braatz, U., R. Krahl, J. Kunsch, K. Prokert and P. Klinger A283 (1989) 240
Structural defects in high resistivity cadmium telluride, Samimi, M., B. Biglari, M. Hage-Ali, J.M. Koebel and P. Siffert A283 (1989) 243
The interaction of copper with structural defects in THM grown cadmium telluride, Biglari, B., M. Samimi, M. Hage-Ali, J.M. Koebel and P. Siffert A283 (1989) 249
Characterization of high resistivity CdTe using acoustoelectric methods, Rosenzweig, J., M. Adolf, H. Dignus and U. Birkholz A283 (1989) 255
Fermi level pinning in the middle of the band gap in CdTe:Cl crystals: role of deep localized states, Agrinskaya, N.V. and E.N. Arkadeva A283 (1989) 260
On the close compensation mechanism in CdTe(Li, Cl) crystals, Agrinskaya, N.V. and O.A. Matveev A283 (1989) 263
Photoluminescence of CdTe crystals annealed in Hg, Ohba, K., Y. Hiratate, T. Taguchi and A. Hiraki A283 (1989) 265
Thermal oxidation of CdTe surfaces and the properties of MOS diodes, Suita, M. and T. Taguchi A283 (1989) 268
A study of CdTe MSM structures, Zelenina, N.K., S.M. Ignatov, V.P. Karpenko, L.V. Maslova, O.A. Matveev, D.A. Popov, A.I. Terent'ev and A.A. Tomasov A283 (1989) 274

Double injection studies of MSM structures from semi-insulating CdTe crystals with varying concentrations of cadmium vacancies, Zelenina, N.K., V.P. Karpenko, O.A. Matveev, A.I. Terent'ev and A.A. Tomasov A283 (1989) 279
Survey of CdTe nuclear detector applications, Entine, G., P. Waer, T. Tiernan and M.R. Squillante A283 (1989) 282
Advantages and limitations of cadmium selenide room temperature gamma ray detectors, Roth, M. A283 (1989) 291
Properties of lead iodide semiconductor radiation detectors, Lund, J.C., K.S. Shah, M.R. Squillante, L.P. Moy, F. Sinclair and G. Entine A283 (1989) 299
GaSe nuclear particle detectors, Nakatani, H., E. Sakai, C. Tatsuyama and F. Takeda A283 (1989) 303
Mésures picoseconde avec des couches polycrystallines de CdTe photoconducteur, Cuzin, M., C. Pierrat and E. Rossa A283 (1989) 310
Picosecond GaAs X- and gamma-ray photodetectors, Friant, A., C. Saliou, R. Galli and S. Barday A283 (1989) 318
Development of two new M–π–n CdTe sensors, Squillante, M.R., G. Entine, E. Frederick, L. Cirignano and T. Hazlett A283 (1989) 323
Doped calcium sulphide as a thermoluminescence dosimetry material, Sweet, M.A.S. and J. Rennie A283 (1989) 330
Mercuric iodide crystal growth in space, Van den Berg, L. and W.F. Schnepple A283 (1989) 335
HgI_2 nucleation experiments performed in the SL1 and SL3 (space laboratory) flights, Cadoret, R., P. Brisson and A. Magnan A283 (1989) 339
Practical application of HgI_2 detectors to a space-flight scanning electron microscope, Bradley, J.G., J.M. Conley, A.L. Albee, J.S. Iwanczyk, A.J. Dabrowski and W.K. Warburton A283 (1989) 348
Development of mercuric iodide X-ray and alpha backscattering spectrometers for space applications, Economou, T. and J. Iwanczyk A283 (1989) 352
Study of α-HgI_2 crystals grown in space by differential scanning calorimetry, scanning cathodoluminescence microscopy and optical microscopy, Nicolau, Y.F. and M. Dupuy A283 (1989) 355
Characterization of CdTe crystals grown under microgravity conditions, Siffert, P., B. Biglari, M. Samimi, M. Hage-Ali, J.M. Koebel, R. Nitsche, M. Bruder, R. Dian and R. Schönholz A283 (1989) 363
Theoretical study of the dislocation structure in HgI_2, Georgeson, G. and F. Milstein A285 (1989) 488
Microhardness and microstructure in single crystals of mercuric iodide, Milstein, F., T.W. James and G. Georgeson A285 (1989) 500
Correlation between plastic deformation parameters and radiation detector quality in HgI_2, Georgeson, G. and F. Milstein A285 (1989) 507
Characterization of ground-based and space-based mercuric iodide single crystals by means of X-ray topography and diffractometry, Leon-Gits, S. and E. Fries A285 (1989) 513

A peak detecting pulse height ADC system for beam diagnostic pick-up detectors in the CRYRING accelerator, Borsuk, S., K. Agehed, W. Klamra and Th. Lindblad A284 (1989) 430
Tests of a time projection chamber module with delay line readout, Budagov, Yu.A., V.V. Glagolev, A.A. Omelyanenko, A.A. Semenov, V. Hlinka, P. Povinec, B. Sitar, E. Kladiva, M. Seman, J. Špalek and A.M. Artykov A284 (1989) 433
Left–right ambiguity resolution in a drift chamber working in the self-quenching streamer mode, Etienne, L., Ph. Jadot, S.P.K. Tavernier and C. Vander Velde A284 (1989) 439
Comment on "Detection of LaF_3 scintillation light in a photosensitive wire chamber" (*Letter to the Editor*), Schotanus, P., P. Dorenbos, C.W.E. Van Eijk and R.W. Hollander A284 (1989) 531
Parallel–series readout for a multiwire drift chamber, Chirikov-Zorin, I.E., Yu.I. Davydov, A.A. Feshchenko, V.B. Flyagin, D.G. Jincharadze and P. Strmen A285 (1989) 484
Construction and performance of diffused and ion-implanted silicon microstrip detectors, Manfredotti, C., G. Gervino, E. Bagnolatti, A. Gabutti, M. Boero and E. Monticone A286 (1989) 238
The multiplexed ADC system and the FASTBUS readout for the DELPHI forward electromagnetic calorimeter, Lippi, I., M. Mazzucato, M. Pegoraro, M. Pernicka and G. Zumerle A286 (1989) 243
A 3-stage gated UV-photon gaseous detector with optical imaging, Breskin, A., R. Chechik and D. Sauvage ... A286 (1989) 251
Gas gain of helium-filled proportional counter at low temperatures (~ 4.2 K), Kishimoto, S. and Y. Isozumi .. A286 (1989) 262
Observation of microchannel plate multifibre structure in soft X-ray images (*Letter to the Editor*), Barstow, M.A., J.E. Lees and G.W. Fraser A286 (1989) 350
Optimum filters for detector charge measurements in presence of $1/f$ noise, Gatti, E., M. Sampietro and P.F. Manfredi A287 (1990) 513
A fast charge integrating and shaping circuit, Kulka, Z. and F. Szoncsó A287 (1990) 521
Time-variant processor with 10 ns weighting function width for Si detector signal processing, Marioli, D. and P. Massetti A287 (1990) 527
Study of GaAs fast comparators for application in CFD/LED timing circuitry, Białkowski, J., A. Dijksman and W. Schoeps A287 (1990) 532
Utilization of MOS gate structure for capacitive charge division readout of silicon strip detector, Tajima, H., M. Nakamura, S. Nakanishi, K. Niwa, H. Tanaka and K. Yamamoto A288 (1990) 536

Nb–AlO_x–Nb tunnel junctions as detectors for ionizing radiation, Hebrank, F., S. Lemke, R.P. Huebener and R. Gross A288 (1990) 541
The design of TE storage cavities for a rf pulse compressor system, Fernandes, P., R. Parodi, C. Salvo and B. Spataro A288 (1990) 549
First Townsend coefficient of organic vapour in avalanche counters, Sernicki, J. A288 (1990) 555
A system for simulation of scintillator light signals, Sefzick, T., K. Kilian, W. Oelert and G. Wienands A288 (1990) 571
A new type of luminescence mechanism in large band-gap insulators: proposal for fast scintillation materials, Kubota, S., J-Z. Ruan(Gen), M. Itoh, S. Hashimoto and S. Sakuragi A289 (1990) 253
Thin films of barium fluoride scintillator deposited by chemical vapor deposition, Kirlin, P.S., R. Binder, D.R. Winn, J. O'Hare, C. LaPierre and M. Whitmore A289 (1990) 261
Prototype of scintillating fibre vertex detector with CCD readout, Bamburov, N.S., A.G. Denisov, S.V. Golovkin, A.M. Gorin, V.N. Govorun, S.V. Kaimachnikov, P.N. Kazakov, E.N. Kozarenko, I.V. Manuilov, A.M. Medvedkov, S.V. Petrenko, V.I. Rykalin, A.V. Ryazantsev, V.P. Sakharov and V.G. Vasil'chenko A289 (1990) 265
Granular-aluminum superconducting detector for 6 keV X-rays and 2.2 MeV beta sources, Gabutti, A., K.E. Gray, R.G. Wagner and R.H. Ono A289 (1990) 274
A model of the limited streamer mechanism, Taylor, F.E. A289 (1990) 283
A 10 MHz micropower CMOS front end for direct readout of pixel detectors, Campbell, M., E.H.M. Heijne, P. Jarron, F. Krummenacher, C.C. Enz, M. Declercq, E. Vittoz and G. Viertel A290 (1990) 149
Performance of transmission dynode photomultipliers in magnetic fields up to 1.5 T, Finsel, G., M. Funk, S. Mordhorst, H.-H. Duhm, H. Krause, R. Langkau and W. Scobel A290 (1990) 450
Preparation of low-noise high-quality silicon microstrip detectors, Nava, F., A. Magnani, G. Ottaviani, R. Tonini, A. Alberigi Quaranta, P. Cantoni, P.L. Frabetti, V. Lelli, L. Stagni, P. Lichard, R. Janik, F. Palombo and P.F. Manfredi A290 (1990) 457
Radiation damage of bipolar SST due to γ rays of ^{60}Co, Ikeda, H. and N. Ujiie A290 (1990) 462

Numerical and Data Analysis

An empirical method for peak-to-total ratio computation of a gamma-ray detector, Cesana, A. and M. Terrani . A281 (1989) 172
On the possibility of a multidimensional kinematic information analysis by means of nearest-neighbour estimations of dimensionality, Chilingarian, A.A. and S.Kh. Harutunyan A281 (1989) 388
Numerical computation of electrostatic fields in multiwire chambers, Weihs, W. and G. Zech A281 (1989) 393
Neutron scattering and its effect on reaction rates in neutron absorption experiments, Copley, J.R.D. and C.A. Stone A281 (1989) 593
A reliability test of measured spectra, Végh, J., I. Kádár, S. Ricz, B. Sulik, D. Varga and G. Székely A281 (1989) 605
Application of the Monte Carlo method to determine the thickness of a ΔE-detector (*Letter to the Editor*), Kozma, P. A281 (1989) 660
Comparison among methods for calculating FWHM, Markevich, N. and I. Gertner A283 (1989) 72
Analysis of positron annihilation lifetime data presented as a sum of convoluted exponentials with the program "SPLMOD", Zhu, Y. and R.B. Gregory A284 (1989) 443
Statistical analysis of γ–γ coincidence matrices, Vanin, V.R. and M. Aïche A284 (1989) 452
Energy loss calculations with fast Fourier transform routines, Bärring, O. A284 (1989) 459
An iterative procedure for unfolding of scintillation pulse-height spectra (*Letter to the Editor*), Zadro, M. and M. Bogovac A284 (1989) 533
Numerical simulation of self-regulating characteristics of a cold neutron source with a closed-thermosiphon, Kawai, T., M. Utsuro and S. Okamoto A285 (1989) 520
Optimization of resolution functions for neutron scattering, Sivia, D.S., R.N. Silver and R. Pynn A287 (1990) 538
Moving macro surface charges: an algorithm for space charge calculations, Schultheiss, Ch. A287 (1990) 551
Tables of the Voigt profile with ten digits, Flores-Llamas, H., A. Cabral-Prieto, H. Jiménez-Domínguez and A. Bravo-Ortega A287 (1990) 557
Variations in dead-time corrections for multiplicity measurements made with paralysable and nonparalysable systems, Lang, D.W. A287 (1990) 559
Statistical treatment of tagged photon experiments, Owens, R.O. A288 (1990) 574
Shell-dependent level densities in nuclear reaction codes, Kataria, S.K., V.S. Ramamurthy, M. Blann and T.T. Komoto A288 (1990) 585
The distribution of emergent flight path lengths from homogeneous spheres, Croft, S. A288 (1990) 589
Characteristic impedance and loss data for a common stripline pickup geometry, Barry, W. and S.Y.R. Liu . . . A288 (1990) 593
A method for fast electromagnetic shower simulation in the Geant Monte Carlo program, Linn, S.L. A288 (1990) 598

Monte Carlo counting efficiencies for measuring Rn in a charcoal canister, Wilson, O.J. A288 (1990) 603
An analytical expression for the extended pulse shape in a proportional counter, Elliott, S.R. A290 (1990) 158
Coherent and incoherent scattering cross sections for polarized X-rays integrated over a small distributed source, Hanson, A.L. A290 (1990) 167
Analysis of positron annihilation lifetime data by numerical Laplace inversion with the program CONTIN, Gregory, R.B. and Y. Zhu A290 (1990) 172
Absolute fluorescence and scattering yields by Monte Carlo calculations: NaI excited by 60 keV, Brunner, G. . A290 (1990) 183
Acceptance diagrams for curved neutron guides, Mildner, D.F.R. A290 (1990) 189
Comments on "Design optimization of a small-angle neutron scattering spectrometer" (*Letter to the Editor*), Mildner, D.F.R. A290 (1990) 259
The fast simulation of electromagnetic and hadronic showers, Grindhammer, G., M. Rudowicz and S. Peters . . A290 (1990) 469
A simple model of hadron calorimeters, Iversen, P.S. A290 (1990) 489
Deconvolution of data from the filter difference spectrometer: from hardware to maximum entropy, Sivia, D.S., P. Vorderwisch and R.N. Silver A290 (1990) 492
Covariance analysis and fitting of germanium gamma-ray detector efficiency calibration data, Geraldo, L.P. and D.L. Smith A290 (1990) 499
Evaluation of beta-decay. II. Finite mass and size effects, Wilkinson, D.H. A290 (1990) 509
Maxwellian cascade model, Macklin, R.L. A290 (1990) 516
Counting signals from radioactivity-measurement systems, Gostely, J.-J. and P. Lerch A290 (1990) 521

Fusion

Ion optics calculations for tritium injection into JET, Kirby, P., A.P.H. Goede and S. Papastergiou A281 (1989) 176
Measurement of the fractional thermonuclear neutron yield during deuterium neutral-beam injection into deuterium plasmas, Loughlin, M.J., P. Van Belle, N.P. Hawkes, O.N. Jarvis, G. Sadler and D.B. Syme A281 (1989) 184
Probing the nature of sticking in muon catalyzed fusion with laminated targets (*Letter to the Editor*), Jändel, M. A281 (1989) 246
Atricial method to obtain sub-barrier fusion cross sections from off-line X-ray measurements, Pascholati, P.R., V.R. Vanin and T. Kodama A281 (1989) 610
Comparative characteristics of atomic particle analyzers with solid and gaseous targets when used at large fusion facilities, Gott, Yu.V. A285 (1989) 524
A new protection system against high voltage vacuum breakdowns, Fumelli, M., F. Jequier and J. Paméla A285 (1989) 527
Cold fusion: An alternative diagnostic (*Letter to the Editor*), Briand, J.P., J. Dewynck, P. Chevallier and J.L. Bobin A285 (1989) 547
Pion production for MuCF, Shin, G.R. and J. Rafelski A287 (1990) 565
Space charge effects in a self-magnetically insulated pinch diode, Westermann, T. A290 (1990) 529

Fission and Nuclear Reactors

Anomaly detection studies for plant surveillance. Part I: Design of an optimal Gaussian processor, Ciftcioglu, Ö. A286 (1989) 265
Application of a resonance capture detector to the precise measurement of neutron total cross sections, Kobayashi, K., S. Yamamoto and Y. Fujita A287 (1990) 570
Anomaly detection studies for plant surveillance. Part II: Alarm reliability and failure rate assessment, Ciftcioglu, Ö. A287 (1990) 576
Assay variance as a figure of merit for neutron multiplicity counters, Ensslin, N., N. Dytlewski and M.S. Krick A290 (1990) 197

Dosimetry, Space Radiation and Medical Applications

Temperature dependence of CsI(Tl) scintillation yield for cosmic muons, 5 and 1.25 MeV γ-rays, Kobayashi, M., P. Carlson and S. Berglund A281 (1989) 192
FIGARO II experiment: description and technical performance, Agnetta, G., R. Di Raffaele, T. Mineo, B. Sacco, L. Scarsi, B. Agrinier, J.C. Christy, B. Parlier, J.P. Chabaud, P. Frabel, P. Mandrou, M. Niel, G. Rouaix, G. Vedrenne, E. Costa, G. Gerardi, J.L. Masnou, E. Massaro and M. Salvati A281 (1989) 197
A novel method for stabilizing singles rates in atmospheric Cherenkov telescopes, Bhat, C.L., A.K. Tickoo, H.S. Rawat, I.K. Kaul, M.L. Sapru, S.K. Kaul, R.K. Kaul, V.K. Senecha and R.C. Rannot A281 (1989) 207
Thermal determination of pseudocumene content in MACRO liquid scintillator, Heinz, R.M., M.W. Gebhard and C.R. Bower A281 (1989) 213

A theoretical description of the beam induced heating of accelerator target foils, Votaw, J.R. and R.J. Nickles . A281 (1989) 216
A cosmic ray veto system based on the direction of flight technique, Benetti, P., E. Calligarich, M. Cambiaghi, R. Dolfini, M. Genoni, G.L. Raselli, M. Terrani, A. Testi and A. Tomaselli A281 (1989) 397
Calibrated charged particle radiation system with precision dosimetric measurement and control, Murray, K.M., W.J. Stapor and C. Casteneda A281 (1989) 616
Magnetospheric particle detection efficiency of a conical telescope, Miah, M.A., J.W. Mitchell and J.P. Wefel . . A281 (1989) 622
Design and numerical simulation of a 3-D electron plasma analyzer that resolves both energy and elevation angle, Weiss, L.A., M.J. Sablik, J.D. Winningham, R.A. Frahm and P.H. Reiff A281 (1989) 628
Multisegmented ionization chamber dosimetry system for light ion beams, Renner, T.R., W.T. Chu, B.A. Ludewigt, M.A. Nyman and R. Stradtner A281 (1989) 640
A Monte Carlo calculation of electromagnetic cascade showers over a wide lateral and energy range in lead, Zhang, C.S., M. Shibata, K. Kasahara and T. Yuda A283 (1989) 78
Simulation and test of a new albedo personal dosimeter for neutrons, Manfredotti, C., A. Zanini, S. Rollet and G. Arman A284 (1989) 464
Crystal growth in the framework of the ESA microgravity programme and future flight opportunities, Seibert, G. A284 (1989) 476
Measurement of vectorial effects in the X-ray and UV photoemission from CsI: A novel polarimeter for soft X-ray astronomy, Fraser, G.W., J.E. Lees and J.F. Pearson A284 (1989) 483
Simulation of induced radioactivity in collimating materials under cosmic proton irradiation, Barashenkov, V.S., A.N. Sosnin, S.N. Fedotov and P.I. Taranenko A284 (1989) 509
A monitoring system of the fast-timing scintillation counters used for detection of air showers, Nishizawa, M., K. Hibino, M. Ohnishi, M. Sakata, M. Shima, Y. Yamamoto, H. Sugimoto, K. Taira, M. Shibata, T. Shirai, N. Tateyama, S. Torii, K. Kasahara, To. Saito, T. Yuda, K. Mizutani, N. Hotta, I. Ohta, M. Amenomori and H. Nanjo A285 (1989) 532
The thermal neutron sensitivities of SEI and Toshiba FD-P10-7 radiophotoluminescent glass dosimeters, Croft, S. A286 (1989) 270
Analysis of the transverse shielding problem at proton accelerators using a hadronic cascade code with low energy particle modules, Zazula, J.M. and K. Tesch A286 (1989) 279
Analysis of thermoluminescence kinetics of CaF_2(Tm) peaks with glow curve deconvolution, Bacci, C., P. Bernardini, A. Di Domenico, C. Furetta and B. Rispoli A286 (1989) 295
Fission fragment escape from bare fission foils: measurement and comparison with calculations based on the use of the LSS-theory for fission fragment range determination, Angelone, M. and P. D'Hondt A286 (1989) 301
Design and simulation of the symmetric SPI: A 2D energy/angle spectrograph for all charged species, Sablik, M.J., J.D. Winningham and J.R. Scherrer A286 (1989) 306
The LEDA extensive air shower array, Bultena, S., R. Blatt, D. Hanna, P. Mercure and K. Murthy A286 (1989) 317
A large etching system for a plastic track detector, Nakamura, S., T. Doke, H. Ichinose, K. Kuwahara, K. Ogura and S. Orito A286 (1989) 323
CR-39 detector and experimental techniques of cosmic supermassive particles search, Ichinose, H., T. Doke, H. Tawara, K. Kuwahara, S. Nakamura, S. Orito and K. Ogura A286 (1989) 327
A portable electronic system for radiation dosimetry using electrets, Cruvinel, P.E., S. Mascarenhas and J. Cameron A287 (1990) 580
Studies of single superconducting grains for a neutrino and dark matter detector, Frank, M., P. Freund, J. Gebauer, K. Pretzl, A. Singsaas and L. Stodolsky A287 (1990) 583
A technique to measure the neutron lifetime from low-earth orbit, Feldman, W.C., G.F. Auchampaugh and D.M. Drake A287 (1990) 595
Cerium fluoride: a scintillator for high-rate applications, Anderson, D.F. A287 (1990) 606
Sensitivities for contrast agent imaging in CT scans using single energy synchrotron radiation, McCarthy, K.J. and J. Fryar A287 (1990) 613
X-ray imaging with scintillating glass optical fibres, Zanella, G. and R. Zannoni A287 (1990) 619
Doses to the CERN 450-GeV super proton synchrotron and an estimate of radiation damage, Schönbacher, H. and F. Coninckx A288 (1990) 612
Development and performance test of a prototype air shower array for search for gamma ray point sources in the very high energy region, Amenomori, M., H. Nanjo, N. Hotta, I. Ohta, K. Kasahara, To. Saito, T. Yuda, K. Mizutani, T. Shirai, N. Tateyama, S. Torii, M. Shibata, H. Sugimoto, K. Taira, K. Hibino, F. Kajino, M. Nishizawa, M. Ohnishi, M. Sakata, M. Shima and Y. Yamamoto A288 (1990) 619
Tests of some prototype indium-loaded scintillators for solar neutrino detection, Payne, A.G.D. and N.E. Booth A288 (1990) 632
A monoenergetic neutron beam facility for biological irradiations, Dytlewski, N., A. Croal, D. Cohen, A. Katsaros, M. Lavin and S. Singh A288 (1990) 641
Use of large size streamer tubes in cosmic ray experiments, Anelli, M., G. Battistoni, G. Bencivenni, P. Campana, U. Denni, G. De Ninno, P. Laurelli, P. Picchi, B. D'Ettorre Piazzoli, A. Campos Fauth and G. Mannocchi A289 (1990) 294

Thermal-neutron fluxes in glycerin, base oil and water, Raoof, M.A., A.M. Al-Soraya and O.S. Al-Horayess ... A290 (1990) 208
The Phobos low energy telescope charged particle experiment, Marsden, R.G., V.V. Afonin, A. Balazs, G. Erdös, J.P.G. Henrion, A.K. Richter, P. Rusznyak, A. Somogyi, S. Szalai, A. Varga, L. Varhalmi, K.-P. Wenzel and M. Witte ... A290 (1990) 211
The low energy particle detector SLED (~ 30 keV–3.2 MeV) and its performance on the Phobos Mission to Mars and its moons, McKenna-Lawlor, S., V.V. Afonin, K.I. Gringauz, E. Keppler, E. Kirsch, A. Richter, M. Witte, D. O'Sullivan, A. Thompson, A.J. Somogyi, L. Szabo and A. Varga ... A290 (1990) 217
The ESTER particle and plasma analyzer complex for the Phobos Mission, Afonin, V.V., S. McKenna-Lawlor, P. Kiraly, R. Marsden, A. Richter, P. Rusznyak, N.M. Shutte, L. Szabo, S. Szalai, I.T. Szucs, L. Varhalmi and M. Witte ... A290 (1990) 223
The HARP electron and ion sensor on the Phobos Mission, Szücs, I.T., I. Szemerey, P. Király, W.E. Sharp, N.M. Shutte, T.E. Cravens, T.I. Gombosi, K.I. Gringauz, A.F. Nagy, S.M. Sheronova, S. Szendrö, M. Tátrallyay, A. Tóth and M.I. Verigin ... A290 (1990) 228
A neutron spectrometer for neutrons with energies between 1 eV and 10 keV, Wang, C.K. and T.E. Blue ... A290 (1990) 237
The standardization of ^{93m}Nb for use as a reference material for reactor neutron dosimetry, Coursey, B.M., R. Vaninbroukx, D. Reher, J.M.R. Hutchinson, P.A. Mullen, K. Debertin, R.J. Gehrke, J.W. Rogers, L.D. Koeppen and D. Smith ... A290 (1990) 537
The virtues of positive-definite reconstruction of X-ray and gamma-ray images, Murphy, M.J. ... A290 (1990) 551
Calibration and X-ray spectroscopy with silicon CCDs, Lumb, D.H. ... A290 (1990) 559
Angular resolution of the Ohya air shower detector, Mitsui, K., T. Aoki, A. Okada, Y. Ohashi, Y. Muraki, S. Shibata, I. Nakamura, H. Kojima, T. Kitamura, Y. Minorikawa, Y. Kato, T. Takahashi, S. Higashi, K. Kobayakawa and Y. Kamiya ... A290 (1990) 565
A 5 in. Si(Li)/Pb sampling calorimeter telescope for observation of cosmic gamma rays in the GeV region, Kashiwagi, T., T. Doke, J. Kikuchi, A. Nakamoto, H. Murakami, K. Kasahara, T. Yuda, Y. Muraki, K. Masuda, M. Haguenauer and V. Innocente ... A290 (1990) 579

Synchrotron Radiation Research

Design and characterization of a high quality, variable taper samarium cobalt undulator, Bhowmik, A., J.K. Brown, M.S. Curtin, W.A. McMullin, Y.S. Tam, S.V. Benson, J.M.J. Madey, B.A. Richman and L. Vintro .. A281 (1989) 224
Medium power X-ray crystal optics for synchrotron radiation sources, Cernik, R. and M. Hart ... A281 (1989) 403

Proceedings of the Eighth USSR National Conference on Synchrotron Radiation Utilization (Novosibirsk, USSR, August 18–22, 1988)

Section I. SR sources

The dedicated synchrotron radiation source SIBERIA-2, Anashin, V.V., A.G. Valentinov, V.G. Veshcherevich, P.D. Vobly, N.G. Gavrilov, E.I. Gorniker, N.I. Zubkov, V.N. Korchuganov, V.S. Kusminykh, G.N. Kulipanov, E.A. Kuper, G.Ya. Kurkin, E.B. Levichev, Yu.G. Matvejev, A.S. Medvedko, V.N. Osipov, V.M. Petrov, S.P. Petrov, A.N. Skrinsky, E.M. Trakhtenberg and V.A. Ushakov ... A282 (1989) 369
The European synchrotron radiation facility, Haensel, R. ... A282 (1989) 375
BEPC synchrotron radiation facilities, Xian Dingchang ... A282 (1989) 380
Project of the compact superconducting storage ring SIBERIA-SM, Anashin, V.V., V.S. Arbuzov, G.A. Blinov, V.G. Veshcherevich, P.D. Vobly, E.I. Gorniker, N.I. Zinevich, E.I. Zinin, N.I. Zubkov, V.A. Kiselev, E.P. Kollerov, G.N. Kulipanov, Yu.G. Matveev, A.S. Medvedko, N.A. Mezentsev, L.G. Morgunov, V.M. Petrov, S.P. Petrov, V.V. Repkov, V.A. Roenko, A.N. Skrinsky, S.V. Sukhanov, Yu.I. Tokarev and E.M. Trakhtenberg ... A282 (1989) 386
The Kharkov 3 GeV pulse stretcher ring as a source of synchrotron radiation, Boldyshev, V.P., P.I. Gladkikh, Yu.N. Grigoryev, I.S. Guk, S.V. Efimov, I.M. Karnaukhov, S.G. Kononenko, N.I. Mocheshnikov, Yu.P. Popkov, A.S. Tarasenko, Yu.N. Telegin, V.F. Chechetenko, A.A. Shcherbakov, V.A. Titov and M.G. Nagaenko ... A282 (1989) 390
Performance of the modified Daresbury SRS, Hughes, E.A., J.N. Corlett, D.M. Dykes, J.S. Mackay, P.D. Quinn, V.P. Suller, S.L. Thomson and R.P. Walker ... A282 (1989) 392
Determination of the critical wavelength of the dedicated synchrotron radiation source SIBERIA-1, Avaev, A.V., N.V. Andronova, A.N. Artemyev, A.I. Chechin, A.G. Mikhin and O.V. Sinyansky ... A282 (1989) 398
The spontaneous radiation properties of an electron moving in a cyclic accelerator with straight-linear intervals, Bagrov, V.G., M.M. Nikitin, N.N. Sirota and N.I. Fedosov ... A282 (198) 402
General and some particular solutions of the inverse problem of the particle radiation theory in external fields, Bessonov, E.G. ... A282 (1989) 405
Coherent radiation of charged particles moving along a closed path, Klepikov, N.P., I.M. Ternov and V.Ya. Epp A282 (1989) 413

Calculation of the spectra of SR derivatives, Kuznetsov, A.S., V.V. Shvajkovskij and E. Vilt A282 (1989) 416
The vacuum control and protection system for BEPC synchrotron radiation beam lines, Xiong Shen-Shou, Wu Jianwu and Xian Dingchang A282 (1989) 418

Section II. FELs and undulators

Electromagnetic undulators for the VEPP-3 optical klystron, Gavrilov, N.G., L.G. Isayeva, G.N. Kulipanov, V.N. Litvinenko, S.F. Mikhailov, V.M. Popik, I.G. Silvestrov, A.S. Sokolov, E.M. Trakhtenberg, N.A. Vinokurov and P.D. Vobly A282 (1989) 422
Lasing in visible and ultraviolet regions in an optical klystron installed on the VEPP-3 storage ring, Drobyazko, I.B., G.N. Kulipanov, V.N. Litvinenko, I.V. Pinayev, V.M. Popik, I.G. Silvestrov, A.N. Skrinsky, A.S. Sokolov and N.A. Vinokurov A282 (1989) 424
An ultrarelativistic FEL: physics and prospects, Kurilko, V.I. and Yu.V. Tkach A282 (1989) 431
A parametric free-electron laser based on the microtron, Alexeev, V.I., E.V. Alieva, K.A. Belovintsev, E.G. Bessonov, A.V. Serov and P.A. Cherenkov A282 (1989) 436
On the theory of parametric free-electron lasers based on opened resonators, Alexeev, V.I., E.G. Bessonov and A.V. Serov A282 (1989) 439
Parametric free-electron lasers, Bessonov, E.G. A282 (1989) 442
Numerical analysis of the open resonator for an FEL, Kleev, A.I. and A.V. Tihomirov A282 (1989) 445
Undulator radiation: promises and problems, Peatman, W. and J. Bahrdt A282 (1989) 448
Orsay free electron laser activities on the storage rings ACO and Super-ACO, Couprie, M.E., C. Bazin, M. Bergher, M. Billardon, P. Elleaume, J.M. Ortega, Y. Petroff, R. Prazeres and M. Velghe A282 (1989) 455
ESRF insertion devices, design considerations, Elleaume, P. A282 (1989) 477
Radiation of a charge moving with multiple frequencies in an electromagnetic field, Nikitin, M.M., V.Yu. Muravyatkin and V.Ya. Epp A282 (1989) 481

Section III. SR for biology and medicine

A small-angle scattering study of bacteriophage T7 using synchrotron radiation, Feigin, L.A., D.I. Svergun, A.T. Dembo, A. Tardieu, P. Vachette, Gy. Ronto and K. Toth A282 (1989) 486
The use of synchrotron radiation to investigate the localization of fluorescent probes in model lipoproteins, Kurek, N.K., E.N. Lapshin, T.I. Syrejshchikova and M.N. Yakimenko A282 (1989) 490
Nontraditional contrast agents for mediastinal lymphography using synchrotron radiation, Dragun, G.N., E.L. Zelentsov, K.V. Zolotarev, Yu.A. Zorin, L.F. Krylova, G.N. Kulipanov and V.N. Gorchakov A282 (1989) 493
Application of I-containing liposomes for lymphography of the mediastinum, Dragun, G.N., E.L. Zelentsov, Yu.A. Zorin, O.A. Rozenberg, K.V. Zolotarev and G.N. Kulipanov A282 (1989) 495
The analysis of micrography optical schemes, Aristov, V.V. and L.G. Shabelnikov A282 (1989) 497
Comparison of X-ray emission analysis sensitivity under various techniques of excitation in biological and environmental studies, Török, Sz., Z. Szökefalvi-Nagy, Sz. Sándor, V.B. Baryshev, K.V. Zolotarev and G.N. Kulipanov A282 (1989) 499
Studies of the muscle structure during contraction initiated by pairwise stimulation (new results), Gadzhiev, A.M., V.S. Gerasimov, N.P. Gorbunova, A.F. Korystova, V.N. Korneev, P.M. Sergienko and A.A. Vazina . A282 (1989) 502
X-ray spectral studies of Ca^{2+}-binding protein centers upon isomorphous replacements, Korystova, A.F., V.M. Shelestov and A.A. Vazina A282 (1989) 506
A crystallographic station for structural investigations of macromolecular crystals on the synchrotron beam of the VEPP-3 storage ring, Popov, A.N., A.A. Antson, V.V. Belyaev, K.P. Bondarenko, E.H. Harutyunyan, D.M. Kheiker, M.A. Sheromov and S.V. Mytnychenko A282 (1989) 510
Analysis of grain and grain products by the SRXFA technique, Khvostova, V.P., V.P. Malina, V.A. Trunova, V.B. Baryshev and K.V. Zolotarev A282 (1989) 516

Section IV. X-ray optics for SR

Multilayered mirrors for high-brightness X-ray sources, Dhez, P. A282 (1989) 519
Polarization phenomena in X-ray optics of synchrotron radiation, Belyakov, V.A. and V.E. Dmitrienko A282 (1989) 526
Fabrication of diffraction X-ray elements, Babin, S.V. and A.I. Erko A282 (1989) 529
XUV laminar holographic gratings: compared performances for monochromator, spectrograph and conical-diffraction configurations, Flamand, J., A. Thévenon, D. Lepère, M. Pan and M. Nevière A282 (1989) 532
On the utilization of backscattering ($2\theta \approx \pi$) for bright X-ray optics design, Kushnir, V.I. and E.V. Suvorov ... A282 (1989) 539
Porous plastic membranes used as extreme and far ultraviolet radiation diffraction filters, Mitrofanov, A.V. and P.Yu. Apel A282 (1989) 542
Fabrication of multilayer thin film filters on support screens and their properties, Mitrofanov, A.V. and D.N. Tokarchuk A282 (1989) 546

Study of polarization properties of multilayer X-ray mirrors, Alexandrov, Yu.M., A.V. Vinogradov, N.N. Zorev, I.V. Kozhevnikov, V.V. Kondratenko, M.O. Koshevoi, V.A. Murashova, A.A. Rupasov, A.I. Fedorenko, A.S. Shikanov and M.N. Yakimenko A282 (1989) 551

Section V. SR for physics and chemistry of solids, atomic and molecular physics, and materials science

Surface science at MAX-LAB, Karlsson, U.O., J.N. Andersen, K. Hansen and T. Nyholm A282 (1989) 553
Luminescence excitation of pure and impure BeO single crystals using synchrotron radiation, Ivanov, V.Y., V.A. Pustovarov, A.V. Kruzhalov and B.V. Shulgin A282 (1989) 559
An EXAFS study of oxide and sulphided catalysts, Zamaraev, K.I. and D.I. Kochubey A282 (1989) 563
Status of X-ray fluorescence elemental analysis at VEPP-3, Baryshev, V.B., N.G. Gavrilov, A.V. Daryin, K.V. Zolotarev, G.N. Kulipanov, N.A. Mezentsev and Ya.V. Terekhov A282 (1989) 570
Heating chambers for synchrotron X-ray experiments, Neissendorfer, F., G. Fischer and H.J. Rossa A282 (1989) 576
Electronic properties of crystalline quartz excited by photons in the 5–25 eV range, Alexandrov, Yu.M., V.M. Vishnjakov, V.N. Makhov, K.K. Sidorin, A.N. Trukhin and M.N. Yakimenko A282 (1989) 580
EXAFS and X-ray diffraction studies of fluorozirconate glasses, Kulikov, A.P., V.K. Goncharuk, T.I. Usoltseva and G.S. Yuriev A282 (1989) 583
EXAFS investigation of $Fe_{1-x}B_x$ amorphous alloys, Zschech, E., W. Blau, V.K. Fjodorov and M.A. Sheromov A282 (1989) 586
Generation of surface states on the $Si–SiO_2$ interface under the influence of synchrotron radiation, Kulipanov, G.N., Yu.M. Litvinov, S.N. Mazurenko, M.A. Mikhailov and V.E. Panchenko A282 (1989) 590
High-temperature diffraction investigations on metallic glasses by means of synchrotron radiation, Mattern, N. and B.P. Tolotschko A282 (1989) 592
The electronic structure of bismuth germanate, Pustovarov, V.A., A.V. Kruzhalov, N.M. Kalinkina, V.A. Lobatch and V.L. Petrov A282 (1989) 595
Intrinsic and impurity luminescence of rare-earth trifluorides, Alexandrov, Yu.M., V.N. Makhov and M.N. Yakimenko A282 (1989) 597
High-energy excitation of luminescence of crystals with oxyanions, Kamenskikh, I.A., V.V. Mikhailin, I.N. Shpinkov and A.N. Vasil'yev A282 (1989) 599
Luminescence excitation of barium fluorohalides by using synchrotron radiation, Mikhailin, V.V. and M.A. Terekhin A282 (1989) 607
VUV excitation of luminescence of anthracene, adenine and thymine, Belskiy, A.N., V.V. Mikhailin, I.A. Frank, N.J. Dodonova and B.V. Rybakov A282 (1989) 610
Luminescence excitation measurements at the VEPP-2M station storage ring equipped with an RSM-500 monochromator, Zhurakovskii, A.P. and A.A. Maiste A282 (1989) 613
Reflection spectra and quantum yield of photoemission of nitrates and chlorinates of alkali metals in the energy range from 10 to 30 eV, Vorob'eva, E.A., A.V. Kozhevnikov, N.A. Timchenko and A.A. Shevtsov A282 (1989) 615
Optical properties of some garnets in the fundamental absorption range, Kolobanov, V.N., V.V. Mikhailin, P.A. Orekhanov, V. Prosser, S. Visnovsky and M. Kucera A282 (1989) 619
Study of optical absorption of corundum in the vacuum ultraviolet region of synchrotron radiation, Harutunyan, V.V., N.E. Grigoryan, V.A. Gevorkyan and G.N. Eritsyan A282 (1989) 622
A station for VUV spectroscopy with the Seya–Namioka monochromator at the SIBERIA-1 storage ring, Belskiy, A.N., Yu.A. Zakharchenko, S.N. Ivanov, V.N. Kolobanov, V.V. Mikhailin, I.N. Shpinkov, A.V. Lipilin, D.G. Odintsov, V.K. Prosvetov, B.V. Rybakov, A.Ya. Smakov and M.A. Terekhin A282 (1989) 625
Coherent inelastic phonon Mössbauer scattering of synchrotron radiation in crystals, Belyakov, V.A. and Yu.M. Aivazian A282 (1989) 628
A station for synchrotron X-ray topography, Lider, V.V., O.P. Aleshko-Ozhevskij, Yu.N. Shilin, M.V. Kovalchuk, Yu.M. Litvinov and S.N. Mazurenko A282 (1989) 632
X-ray diffraction on a multilayer structure modulated by surface acoustic waves, Erko, A.I., D.V. Roshchupkin, A.A. Snigirev, A.M. Smolovich, A.Yu. Nikulin and G.V. Vereshchagin A282 (1989) 634
The spectral dependence of the integral coefficient of the forbidden (222) reflection, measured for distorted silicon samples, Karabekov, I.P., D.L. Egikian and R.A. Mikaelian A282 (1989) 638
Investigation of diffraction parameters of real GaP crystals in a wide band of synchrotron radiation wavelengths, Karabekov, I.P., D.L. Egikian, R.A. Mikaelian and A.M. Arzakantsian A282 (1989) 640
Measurement of diffraction parameters of $Y_3Al_5O_{12}$ in a wide band of wavelengths from 0.06 to 0.2 nm, Karabekov, I.P., D.L. Egikian, R.A. Mikaelian, V.G. Bagdasarian, A.M. Arzakantsian and V.Zh. Danielian . A282 (1989) 642
Technique of studying possible structural transformations in liquid gallium, tin and indium using synchrotron radiation diffraction, Ancharov, A.I. and B.R. Gelchinskii A282 (1989) 644
Anomalous X-ray scattering study of amorphous alloys, Babanov, Yu.A., R.Sh. Sadykova, V.R. Shvetsov, A.V. Serikov, A.L. Ageev and V.V. Vasin A282 (1989) 646
Synchrotron radiation studies of defect structure evolution in aluminium during creep, Barakhtin, B.K., I.A. Ovid'ko and E.P. Savicheva A282 (1989) 651

Automatization of phase identification of X-ray diffraction powder patterns obtained by using SR, Yakhimov, I.S. A282 (1989) 655
Phase shifts in the EXAFS of crystalline iron – Experimental results and theoretical calculations, Zschech, E. and P. Rennert A282 (1989) 658
On the minimization functional in the data processing of EXAFS spectra by fitting and background removal, Guzhavina, T.I. A282 (1989) 664
Possibility of successive SRXFA use along with chemical-spectral methods for palladium analysis in geological samples, Kislov, E.V., A.A. Kulikov and A.B. Kulikova A282 (1989) 667
Geochemical identification of mare-type basalt groups from a lunar highland region (by INAA and SRXFA), Tarasov, L.S., A.F. Kudryashova, A.A. Ulyanov, V.B. Baryshev, V.A. Bobrov, Yu.G. Shipitsyn, E.G. Vertman and A.F. Sudyko A282 (1989) 669
Some methodical peculiarities of analysis of small-mass samples by SRXFA, Kudryashova, A.F., L.S. Tarasov, A.A. Ulyanov and V.B. Baryshev A282 (1989) 673
Geochemistry of rare elements in lunar basalt rocks based on SRXFA, Tarasov, L.S., A.F. Kudryashova, A.A. Ulyanov, V.B. Baryshev and K.V. Zolotarev A282 (1989) 677
Optical SR investigation of thin $YBa_2Cu_3O_{7-x}$ films in the 4–30 eV range, Stankevich, V.G., N.Yu. Svechnikov, K.V. Kaznacheev, R. Kink, H. Niedrais, K. Kalder, V.N. Golubev and V.Ya. Kosyev A282 (1989) 684
Resonant photoemission from the surface of a high-temperature Y–Ba–Cu–O superconductor, Devyatov, V.G., S.V. Koshcheev, A.E. Cherkashin, E.S. Gluskin, A.V. Dudnikov, V.G. Dudnikov, A.K. Sood, V.S. Sahnie and G. Ventkataraman A282 (1989) 688
X-ray fluorescence technique in geochemical studies of noble metals, Kolmogorov, Yu.P., A.S. Lapukhov, R.D. Melnikova and V.P. Khvostova A282 (1989) 692
A station for studying solid-state chemical reactions by the Laue method, Gaponov, Yu.A., N.Z. Lyakhov, B.P. Tolochko, S.E. Baru, G.A. Savinov and M.A. Sheromov A282 (1989) 695
Thermal decomposition of crystal hydrates by the Laue method, Gaponov, Yu.A., N.Z. Lyakhov, B.P. Tolochko, V.V. Boldyrev and M.A. Sheromov A282 (1989) 698

Section VI. SR for metrology

Stability of semiconductor photodiodes as VUV detectors, Tegeler, E. and M. Krumrey A282 (1989) 701
Determination of the spectral radiance of deuterium lamps using the storage ring BESSY as a primary radiometric standard, Tegeler, E. A282 (1989) 706
Use of synchrotron radiation for calibration of a working measuring instrument based on plasma focus, Anevsky, S.I., A.E. Vernyi, N.P. Kozlov, I.V. Konev, V.A. Malaschenko, O.Yu. Morozov and P.A. Tsygankov A282 (1989) 714
The elaboration of a microchannel analyzer of laser-produced plasma images in the quantum energy region of 1–20 keV, Alexandrov, Yu.M., M.V. Dmitriev, Yu.A. Zakharenkov, V.A. Murashova, T.F. Nikitina, G.V. Sklizkov, A.S. Shikanov and M.N. Yakimenko A282 (1989) 716

Section VII. Instrumentation

A comparison of alternative schemes for dispersive mode X-ray absorption spectroscopy, Kopecký, M. and O. Renner A282 (1989) 719
Four-channel spectrometer on a transmission grating with a combined system of detection, Alexandrov, Yu.M., Yu.A. Zakharenkov, M.O. Koshevoi, V.A. Murashova, T.F. Nikitina, A.A. Rupasov, G.V. Sklizkov, A.S. Shikanov, M.N. Yakimenko. R. Zigel, G.D. Tsakiris and K. Eidman A282 (1989) 725
Combination of optical and small-angle X-ray scattering diffractometers in the high-time-resolution method for structural studies, Gadzhiev, A.M., V.S. Gerasimov, V.N. Korneev, P.M. Sergienko, A.A. Vazina and V.V. Zhiromsky A282 (1989) 728
An automated system for experiments with synchrotron radiation of the "SIRIUS" synchrotron, Timchenko, N.A. and A.A. Shevtsov A282 (1989) 732
An updated system of electronic modules for X-ray spectrometers with cooled semiconductor detectors, Ignatyev, O.V., A.I. Kosse, A.D. Pulin, Yu.A. Shevchenko and N.F. Shkola A282 (1989) 734
An updated program-controlled analog processor, model AP-006, for semiconductor detector spectrometers, Shkola, N.F. and Yu.A. Shevchenko A282 (1989) 739
VUV monochromators on Super-ACO, Lagarde, B. A282 (1989) 745

Modelling of undulator sources, Chapman, K., B. Lai, F. Cerrina and J. Viccaro A283 (1989) 88
An algorithm for computer simulation of undulators and wigglers, Anacker, D.C., W. Hale and J.L. Erskine ... A284 (1989) 514

Proceedings of the 10th International Free Electron Laser Conference
(Jerusalem, Israel, August 29–September 2, 1988)

Section I. Low gain FEL (oscillator) experiments

Near-ideal lasing with a uniform wiggler, Warren, R.W., J.E. Sollid, D.W. Feldman, W.E. Stein, W.J. Johnson, A.H. Lumpkin and J.C. Goldstein A285 (1989) 1
High extraction efficiency experiments with the Los Alamos free electron laser, Feldman, D.W., H. Takeda, R.W. Warren, J.E. Sollid, W.E. Stein, W.J. Johnson, A.H. Lumpkin and R.B. Feldman A285 (1989) 11
Time-resolved spectral measurements for the Boeing free-electron laser experiments, Lumpkin, A.H., N.S.P. King, M.D. Wilke, S.P. Wei and K.J. Davis A285 (1989) 17
Measurement of the coherent harmonics emitted in the Mark III free electron laser, Bamford, D.J. and D.A.G. Deacon A285 (1989) 23
Spontaneous emission of the Super-ACO FEL optical klystron DOMINO, Couprie, M.E., C. Bazin, M. Billardon and M. Velghe A285 (1989) 31

Section II. High gain and collective regime experiments

A high power, 600 μm wavelength free electron laser, Kirkpatrick, D.A., G. Bekefi, A.C. Dirienzo, H.P. Freund and A.K. Ganguly A285 (1989) 43
Theory and experiment for the induction linac FEL, Mima, K., K. Imasaki, S. Kuruma, T. Akiba, N. Ohigashi, Y. Tsunawaki, K. Tanaka, C. Yamanaka and S. Nakai A285 (1989) 47
High efficiency millimeter-wave free electron laser experiments, Hartemann, F. and J.M. Buzzi A285 (1989) 53
The K_u-band ubitron experiment at the Naval Research Laboratory, Pershing, D.E., R.H. Jackson, H.P. Freund and H. Bluem A285 (1989) 56

Section III. New proposals and status reports

A survey of FEL activity in China, Liu Shenggang A285 (1989) 63
Status of the Dutch free electron laser for infrared experiments, Van Amersfoort, P.W., R.W.B. Best, B. Faatz, C.A.J. Van der Geer, W.J. Mastop, B.J.H. Meddens, A.F.G. Van der Meer, D. Oepts and M.J. Van der Wiel A285 (1989) 67
Proposal for a race-track microtron with high peak current, Ernst, G.J., E.H. Haselhoff, W.J. Witteman, J.I.M. Botman, W. Van Genderen, H.L. Hagedoorn, J.A. Van der Heide and W.J.G.M. Kleeven A285 (1989) 71
Status of the Darmstadt near-infrared free-electron-laser project, Aab, V., K. Alrutz-Ziemssen, H. Genz, H.-D. Gräf, A. Richter, H. Weise and A. Gaupp A285 (1989) 76
Proposal for an X-band single-stage FEL, Hiramatsu, S., K. Ebihara, Y. Kimura, J. Kishiro, M. Kumada, H. Kurino, Y. Mizumachi, T. Ozaki and K. Takayama A285 (1989) 83
Free electron laser with small period wiggler and sheet electron beam: a study of the feasibility of operation at 300 GHz with 1 MW cw output power, Booske, J.H., V.L. Granatstein, T.M. Antonsen Jr, W.W. Destler, J. Finn, P.E. Latham, B. Levush, I.D. Mayergoyz, D. Radack, J. Rodgers, M.E. Read and A. Linz A285 (1989) 92
CLIO: Collaboration for an Infrared Laser at Orsay, Ortega, J.M., M. Bergher, R. Chaput, A. Dael, M. Velghe, Y. Petroff, J.C. Bourdon, R. Belbeoch, P. Brunet, Y. Dabin, B. Mouton, J.P. Perrine, E. Plouvier, R. Pointal, M. Renard, M. Roch, J. Rodier, P. Roudier, Y. Thiery, P. Bourgeois, P. Carlos, C. Hezard, J. Fagot, J.L. Fallou, P. Garganne, J.C. Malglaive and D.T. Tran A285 (1989) 97
Proposed extended tuning range for the Los Alamos mid-infrared adjustable, coherent light experiment (MIRACLE) facility, Lumpkin, A.H., D.W. Feldman, J.E. Sollid, R.W. Warren, W.E. Stein, B.E. Newnam, J.C. Goldstein, W.J. Johnson and J.M. Watson A285 (1989) 104

Section IV. FEL theory in the linear regime

Parametrizing the gain dependences in a single passage FEL operating with moderate current e-beams, Dattoli, G., H. Fang, L. Giannessi, M. Richetta, A. Torre and R. Caloi A285 (1989) 108
Asymmetries of the gain curve, Nölle, D. A285 (1989) 115
Amplified spontaneous emission in a single pass free electron laser, Yu, L.-H. and S. Krinsky A285 (1989) 119
Gain reduction in FELs due to diffraction losses, Fruchtman, A. A285 (1989) 122
Interpretation of wave-profile modification measurements in high-gain Raman free-electron-laser experiments, Jerby, E. and A. Gover A285 (1989) 128

Section V. FEL theory in the non-linear regime

Mode competition in long-pulse FELs, Kimel, I. and L.R. Elias A285 (1989) 132
Nonlinear mode competition and coherence in low gain FEL oscillators, Levush, B. and T.M. Antonsen Jr A285 (1989) 136
Modulational instability in the free electron laser, Elgin, J.N. A285 (1989) 144
Sideband suppression in the Los Alamos free electron laser using a Littrow grating, Sollid, J.E., D.W. Feldman, R.W. Warren, H. Takeda, S.J. Gitomer, W.J. Johnson and W.E. Stein A285 (1989) 147
Sideband suppression for free electron lasers, Sollid, J.E., D.W. Feldman and R.W. Warren A285 (1989) 153
Sideband instabilities and optical guiding in a free electron laser: experiment and theory, Bhattacharjee, A., S.Y. Cai, S.P. Chang, J.W. Dodd and T.C. Marshall A285 (1989) 158

Tapering FEL amplifiers in wiggler period and field, Shay, H.D., G.A. Deis, E.T. Scharlemann and T.E. Smith Jr A285 (1989) 163
Nonlinear theory and design of a harmonic ubitron/free electron laser, Freund, H.P., H. Bluem and R.H. Jackson A285 (1989) 169
Chirping for efficiency enhancement of the free electron laser, Moore, G.T. and J.C. Goldstein A285 (1989) 176

Section VI. Numerical simulations

Numerical simulations of free electron laser oscillators, McVey, B.D., J.C. Goldstein, R.L. Tokar, C.J. Elliott, S.J. Gitomer, M.J. Schmitt and L.E. Thode A285 (1989) 186
Integrated numerical modeling of free electron laser oscillators, Goldstein, J.C., B.D. McVey, B.E. Carlsten and L.E. Thode A285 (1989) 192
One-dimensional simulation of a free electron laser oscillator using a diffraction grating as a cavity mirror, Takeda, H. and J.E. Sollid A285 (1989) 197
Simulations of mode reduction with an intracavity etalon in an rf-linac based FEL, Oepts, D., A.F.G. Van der Meer, R.W.B. Best, P.W. Van Amersfoort and W.B. Colson A285 (1989) 204
3D particle simulation and 3D linear model analysis of FELIX, Best, R.W.B., B. Faatz, D. Oepts, P.W. Van Amersfoort, E. Jerby and T.-M. Tran A285 (1989) 211
Simulation of superradiant free electron lasers, Sharp, W.M., W.M. Fawley, S.S. Yu, A.M. Sessler, R. Bonifacio and L. De Salvo Souza A285 (1989) 217
Simulation and animation of electron motion in the ponderomotive potential of laser beats, Sheena, Z., A. Gover and S. Ruschin A285 (1989) 224

Section VII. Unconventional FEL schemes

Recent results on the Orbitron Maser, Alexeff, I., F. Dyer and M. Rader A285 (1989) 228
A 35 GHz cyclotron autoresonance maser amplifier, Bekefi, G., A. Dirienzo, C. Leibovitch and B.G. Danly ... A285 (1989) 230
Development of high power CARM oscillators, Fliflet, A.W., R.B. McCowan, C.A. Sullivan, D.A. Kirkpatrick, S.H. Gold and W.M. Manheimer A285 (1989) 233
Experimental study of the interaction of an electron beam with the ponderomotive potential of laser beats, Sheena, Z., S. Ruschin, A. Gover and H. Kleinman A285 (1989) 239
A gyrotron-powered standing-wave electromagnetic wiggler experiment, Chu, T.S., B.G. Danly and R. Temkin . A285 (1989) 246
Monochromatic X-ray emission of a fully ionized hydrogen plasma, Neff, W., R. Noll, F. Rühl, R. Lebert, C.R. Haas, B. Weikl and G. Herziger A285 (1989) 253
Quasi-linear analysis of a Smith–Purcell free electron amplifier, Botton, M. and A. Ron A285 (1989) 257
Smith–Purcell amplifier in a regime of exponential gain, Schächter, L. and A. Ron A285 (1989) 261
Propagation of picosecond electron beams for gas-loaded FELs, Ohashi, H., R. Hajima and S. Kondo A285 (1989) 265
Guidance and concentration of radiation by a hollow dielectric waveguide, Żakowicz, W. A285 (1989) 269
Optically-pumped free electron laser with electrostatic reacceleration, Hofland Jr, R. and D.C. Pridmore-Brown A285 (1989) 275

Section VIII. Wigglers, undulators

Development of a 10-meter wedged-pole undulator, Quimby, D.C., S.C. Gottschalk, F.E. James, K.E. Robinson, J.M. Slater and A.S. Valla A285 (1989) 281
Tunable microwigglers for free electron lasers, Chen, S.C., G. Bekefi, S. DiCecca and R. Temkin A285 (1989) 290
Coaxially fed folded foil electromagnet wiggler, Sneh, A. and E. Jerby A285 (1989) 294
Pulsed wire magnetic field measurements on a 4.3 m long wiggler, Shahal, O. and R. Rohatgi A285 (1989) 299
3-D magnetic field calculations for wigglers using magnus-3D, Pissanetzky, S. and P. Tompkins A285 (1989) 303
Spectral and angular distribution of radiation from advanced wigglers with sharply peaked magnetic fields, Steinmüller-Nethl, D., D. Steinmüller and C. Leubner A285 (1989) 307

Section IX. System performance, electron optics and beam transport

New photoelectric injector design for the Los Alamos National Laboratory XUV FEL accelerator, Carlsten, B.E. A285 (1989) 313
Photo-injector, accelerator chain and wiggler development programs for a high peak power rf free electron laser, Dei-Cas, R., P. Balleyguier, J. Bardy, A. Bertin, Cl. Bonetti, F. Coçu, J.P. De Brion, J. Frehaut, G. Haouat, J.P. Girardeau-Montaut, A. Herscovici, D. Iracane, S. Joly, J.P. Laget, H. Leboutet, J.G. Marmouget, Y. Pranal, J. Sigaud, S. Striby, J. Vouillarmet and P. Yvon with the Collaboration of Thomson-CSF A285 (1989) 320
A proposed superconducting photoemission source of high brightness, Chaloupka, H., H. Heinrichs, A. Michalke, H. Piel, C.K. Sinclair, F. Ebeling, T. Weiland, U. Klein and H.P. Vogel A285 (1989) 327
Electron beam measurements on the first stage of the HPMC high brightness gun, Talmadge, S., W. Burke, S. Fornaca, B.I. Hauss, L. Higgins, P.S. Lee, S. Texter and H.R. Thompson Jr A285 (1989) 333

A linac for a free electron laser oscillator, Kawarasaki, Y., M. Ohkubo, K. Mashiko, M. Sugimoto, M. Sawamura, H. Yoshikawa, M. Takabe and N. Shikazono A285 (1989) 338
Optical-transition radiation measurements for the Los Alamos and Boeing free-electron laser experiments, Lumpkin, A.H., R.B. Feldman, D.W. Feldman, S.A. Apgar, B.E. Carlsten, R.B. Fiorito and D.W. Rule A285 (1989) 343
Bremsstrahlung radiation effect in rare earth permanent magnets, Luna, H.B., X.K. Maruyama, N.J. Colella, J.S. Hobbs, R.S. Hornady, B. Kulke and J.V. Palomar A285 (1989) 349
Beam spill in long wigglers, Segall, S.B. and J.F. Ostiguy A285 (1989) 355
Computation of emittance growth in a focusing wiggler FEL, Ben-Zvi, I. and J.M. Wachtel A285 (1989) 364

Section X. FEL applications

The ground based free electron laser: challenges and solutions, Meyer, T.W., R.L. Gullickson, B.J. Pierce and D.R. Ponikvar A285 (1989) 369
Potential application of the Los Alamos free electron laser: high-temperature superconductors, Lumpkin, A.H. A285 (1989) 374
IMP, a free electron laser amplifier for plasma heating in the microwave tokamak experiment, Jong, R.A., D.P. Atkinson, J.A. Byers, F.E. Coffield, G.A. Deis, B. Felker, S.W. Ferguson, R.A. Fontaine, D.B. Hopkins, M. Makowski, T.J. Orzechowski, A.C. Paul, E.T. Scharlemann, R.D. Schlueter, B.W. Stallard, R.D. Stever and A.L. Throop A285 (1989) 379
Induction-linac based free electron laser amplifier for fusion applications, Jong, R.A. and R.R. Stone A285 (1989) 387

Insertion devices for DORIS III, Pflüger, J. and P. Gürtler A287 (1990) 628
RADID: a software for insertion device radiation calculation, Wang, C. and D. Xian A288 (1990) 649
The asymmetric wiggler at HASYLAB, Pflüger, J. and G. Heintze A289 (1990) 300
Aberration-free and harmonic-free optics for time-resolved X-ray absorption spectroscopy using synchrotron radiation, Tolentino, H., F. Baudelet, E. Dartyge, A. Fontaine, A. Lena and G. Tourillon A289 (1990) 307
X-ray detection efficiency of a silicon surface barrier detector using synchrotron radiation in the 0.06–0.9 keV energy region, Cho, T., M. Hirata, E. Takahashi, N. Yamaguchi, T. Kondoh, S. Miyoshi, S. Aoki, H. Maezawa and A. Yagishita A289 (1990) 317
Compton scattering of 141 keV X-rays from 1s-electrons of silver: a synchrotron radiation experiment, Manninen, S., K. Hämäläinen, J.R. Schneider, A.J. Rollason and W. Drube A290 (1990) 242
Calculation of the polarisation of synchrotron radiation, Laundy, D. A290 (1990) 248
A polarimeter for circularly polarised synchrotron radiation (*Letter to the Editor*), Collins, S.P., D. Laundy, A. Brahmia, S. Jones, D. Timms, M.J. Cooper and A.J. Rollason A290 (1990) 254
First results in coherent harmonic generation using the undulator at the MAX-lab electron storage ring, Werin, S., M. Eriksson, J. Larsson, A. Persson and S. Svanberg A290 (1990) 589
BENT – A software for raytracing of X-rays on bent oblique cut crystals, Fang, Y., D. Li and D. Xian A290 (1990) 597
A position-sensitive detector for synchrotron radiation, Röjsel, P. A290 (1990) 603
Design and performance of a VUV ellipsometer, Johnson, R.L., J. Barth, M. Cardona, D. Fuchs and A.M. Bradshaw A290 (1990) 606

Special Applications

Evaluation of a prompt gamma ray sonde consisting of an isotopic neutron source and a high purity germanium detector, El-Kady, A.A., W.H. Abulfaraj and A.F. Abdulfattah A281 (1989) 236
Dating of speleothems by radiological methods, Papastefanou, C. and C. Charalambous A281 (1989) 406
Selective suppression of negative ions by lasers (*Letter to the Editor*), Berkovits, D., E. Boaretto, G. Hollos, W. Kutschera, R. Naaman, M. Paul and Z. Vager A281 (1989) 663
A Compton scattering method for inspecting concrete structures, Hussein, E.M.A. and T.M. Whynot A283 (1989) 100
Real-time position measuring technique for a moving object with a sealed gamma-ray source attached, Nitta, Y. and S. Enomoto A285 (1989) 540
Development of a stable tritium (HT) generation system for testing atmospheric HT monitors, Miller, W.R., E.E. Hughes and B.M. Coursey A286 (1989) 334

Letters to the Editor

A test of new position sensitive detectors for SPEG, Villari, A.C.C., W. Mittig, Y. Blumenfeld, A. Gillibert, P. Gangnant and L. Garreau A281 (1989) 240
Self-quenching streamers in Kr-mixtures, Koori, N., M. Hashimoto, K. Yoshioka, I. Kumabe, H. Ohgaki and M. Matoba A281 (1989) 243

Probing the nature of sticking in muon catalyzed fusion with laminated targets, Jändel, M. A281 (1989) 246
A combined system for the generation of an intense cold neutron beam with a medium power research reactor, Utsuro, M. and K. Okumura A281 (1989) 649
A simple method to measure wire tensions in multiwire chambers, Mueller, E.R. A281 (1989) 652
Contribution of inelastic scattering to the vanadium differential scattering cross section; implications for the calibration of neutron spectrometers, Mayers, J. A281 (1989) 654
Remarks on constant fraction discriminators applied for BaF_2 crystals, Białkowski, J., M. Moszyński, D. Wolski and W. Klamra A281 (1989) 657
Application of the Monte Carlo method to determine the thickness of a ΔE-detector, Kozma, P. A281 (1989) 660
Selective suppression of negative ions by lasers, Berkovits, D., E. Boaretto, G. Hollos, W. Kutschera, R. Naaman, M. Paul and Z. Vager A281 (1989) 663
Self-supporting ruthenium targets by electroplating, Cecchi, A. and P. Sona A283 (1989) 107
Scintillating plastic fibres for hadron calorimetry, Hartjes, F.G. and R. Wigmans A283 (1989) 109
Absolute analyzing power calibration in spin-1/2 from spin-0 scattering, Hinterberger, F., U. Lahr, B. v. Przewoski and R. Henneck A284 (1989) 523
Particle identification of heavy ions with large silicon detectors, Motobayashi, T., M. Louvel, S.M. Lee and S. Jeong A284 (1989) 526
International Committee for Radionuclide Metrology, Christmas, P. A284 (1989) 529
Comment on "Detection of LaF_3 scintillation light in a photosensitive wire chamber", Schotanus, P., P. Dorenbos, C.W.E. Van Eijk and R.W. Hollander A284 (1989) 531
An iterative procedure for unfolding of scintillation pulse-height spectra, Zadro, M. and M. Bogovac A284 (1989) 533
Cold fusion: An alternative diagnostic, Briand, J.P., J. Dewynck, P. Chevallier and J.L. Bobin A285 (1989) 547
Pumped liquid scintillator-filled halar fibres: an approach to radiation-resistant calorimeter readout, Pinfold, J.L., J-G. Boutin and D. Dumas A286 (1989) 345
Position resolution measurements for position-sensitive silicon detectors by use of circular apertures, Caussyn, D.D., G.L. Gentry, A. Toppins and N.R. Fletcher A286 (1989) 348
Observation of microchannel plate multifibre structure in soft X-ray images, Barstow, M.A., J.E. Lees and G.W. Fraser A286 (1989) 350
Quality tests of CsI(Tl) scintillators, Gong, W.G., N. Carlin, C.K. Gelbke and R. Dayton A287 (1990) 639
Investigation of the crystal scintillations in the VUV region, Buzulutskov, A.F., L.K. Turchanovich, V.G. Vasilchenko, Y.L. Jansons, Z.A. Rachko, V.J. Valbis and N.M. Khaidukov A288 (1990) 659
A gas-filled UV-photon detector with CsI photocathode for the detection of Xe light, Dangendorf, V., A. Breskin, R. Chechik and H. Schmidt-Böcking A289 (1990) 322
A new $^{15}N^+$ ion beam source, Naoumidis, A. and V. Katselis A289 (1990) 325
A polarimeter for circularly polarised synchrotron radiation, Collins, S.P., D. Laundy, A. Brahmia, S. Jones, D. Timms, M.J. Cooper and A.J. Rollason A290 (1990) 254
A new method of adjustment of a diffraction grating interferometer for very cold neutrons, Ioffe, A.I. A290 (1990) 257
Comments on "Design optimization of a small-angle neutron scattering spectrometer", Mildner, D.F.R. A290 (1990) 259
A microcomputer-based multiparameter nuclear data acquisition system, Schneider, M.B. and N.K. Gregory . . A290 (1990) 613

Errata

S.Yu. Budyashova, V.P. Zrelov and E.S. Kuzmin, The Cherenkov method of simultaneous determination of the mean energy and direction of a 650 MeV proton beam, Nucl. Instr. and Meth. A277 (1989) 304–312 . . . . . A281 (1989) 667
C. Bacci, J. Boniface, R. Bonino, G. Busetto, A. Caner, P. Casoli, P. Cennini, F. Ceradini, J. Colas, R. Conte, M. De Giorgi, F. Lacava, J.C. Lacotte, R. Martinelli, A.T. Meneguzzo, M. Nicoletto, E. Petrolo, A. Tusi, S. Veneziano and L. Zanello, Electronics and readout of the UA1 uranium–TMP calorimeter A284 (1989) 536
L.F. De Ferrariis, F. Tutzauer, E.A. Sánchez and R.A. Baragiola, UHV compatible cylindrical mirror analyzer designed for angular measurements, Nucl. Instr. and Meth. A281 (1989) 43–49. . . . . A287 (1990) 642
DØ Calorimeter Group, Hadron and electron response of uranium/liquid argon calorimeter modules for the DØ detector, Nucl. Instr. and Meth. A280 (1989) 36–44 . . . . . A288 (1990) 662
S.R. Amendolia et al., The spatial resolution of the ALEPH TPC, Proc. 5th Int. Wire Chamber Conf., Vienna, Austria, 1989, Nucl. Instr. and Meth. A283 (1989) 573–577 . . . . . A290 (1990) 263
M. Aderholz et al., HOLRED – A machine for the replay of holograms made in a large bubble chamber, Nucl. Instr. and Meth. A284 (1989) 311–322 . . . . . A290 (1990) 264

Book Review

Neutron cross sections, volume 2, neutron cross section curves, by V. McLane, C.L. Dunford and P.F. Rose (Reviewer: G. Rudstam) A281 (1989) 250

Thermochemical Data for Reactor Materials and Fission Products

edited by **E.H.P. Cordfunke** *and* **R.J.M. Konings,**
Netherlands Energy Research Foundation, Petten, The Netherlands

This volume presents a collection of critically assessed data on inorganic compounds which are of special interest in nuclear reactor safety studies. Thermodynamic equilibrium calculations are an important and widely used instrument in the understanding of the chemical behaviour and release of fission products in the course of nuclear reactor accidents. The reliability of such calculations is, nevertheless, limited by the availability of accurate input data for relevant compounds.

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Nuclear Measurements in Industry

by **S. Rózsa,** *Institute of Isotopes of the Hungarian Academy of Sciences, Budapest, Hungary*

In this book the author provides a complete description of nuclear measurements in industry, covering the physical principles, methods, instruments and equipment, and industrial applications. One of the great advantages of industrial nuclear measurements is that their use ensures the optimum use of raw material. The increasing cost of raw materials makes it essential to adhere strictly to the standards and prescriptions related to the product and this is possible only by the application of continuous and accurate measurements. As a result, the importance of nuclear instruments is rapidly growing particularly in fields where the application of alternative methods is not possible. This is illustrated by several practical examples described in the book. Similarly important are nuclear measuring and process control equipment which serve to optimize the use of energy in industrial processes.

The first chapter introduces the basic notations and laws of radioactivity as well as the measurement of radiation. The following chapters then cover the various areas of application including industry, agriculture, food conservation, sterilization, therapy, earth sciences, etc. Each chapter deals with a different type of measurement and presents details of the design and technology of both tailor-made and standard equipment for measurment and control in various industrial tasks, as well as some of the more commonly used types of instruments.

As a collection of examples of isotopic instrument application and automation, the book is a valuable aid for designers and technicians in the field of industrial automation and measurement technology. The information provided may also be helpful for industrial applications of computers and robots since their input channels may require signals provided by the isotopic instruments discussed.

Contents: 1. Basic Concepts. 2. Radiation Detection Systems. 3. Measuring Methods and Measuring Instruments. 4. Indication of Limit Values. 5. Level Measurement. 6. Thickness Measurement. 7. Measuring the Coating Thickness. 8. Density Measurement. 9. Measuring Moisture Content. 10. Determining Material Composition with Nuclear Instruments. 11. Other Industrial Applications of Nuclear Methods. 12. Establishing Radioisotopic Measuring Devices in Industry. Literature. Subject Index.

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